

Colorado Department of Public Health and Environment

OPERATING PERMIT

Pioneer Natural Resources USA, Inc.

Burro Canyon Compressor Station

First Issued: July 1, 2000

Renewed: October 1, 2009

AIR POLLUTION CONTROL DIVISION COLORADO OPERATING PERMIT

FACILITY NAME: Burro Canyon OPERATING PERMIT NUMBER

Compressor Station

FACILITY ID: 0710037

RENEWED: October 1, 2009 EXPIRATION DATE: October 1, 2014

MODIFICATIONS: See Appendix F of Permit

Issued in accordance with the provisions of Colorado Air Pollution Prevention and Control Act, 25-7-101 et seq. and applicable rules and regulations.

ISSUED TO: PLANT SITE LOCATION:

Pioneer Natural Resources USA, Inc. 11318 County Road 53.5

1401 17th Street, Suite 1200 Trinidad, CO 81082
Denver, CO 80202 Las Animas County

INFORMATION RELIED UPON

Operating Permit Application Received: February 27, 2004

And Additional Information Received: June 28, 2004, October 18, 2004, February 24, 2005,

April 1, 2008, January 21, 2009, June 3, 2009 and August 2, 2012

Nature of Business: Natural Gas Compression

Primary SIC: 1311

RESPONSIBLE OFFICIAL FACILITY CONTACT PERSON

Name: Thomas D. Sheffield Name: Michael Stanley

Title: V.P. Western Division Title: Engineering Compliance

Supervisor

99OPLA208

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SUBMITTAL DEADLINES

Semi-Annual Monitoring Period: October 1 - March 31, April 1 - September 30

Semi-Annual Monitoring Report: May 1, 2010 & November 1, 2010 and subsequent years

Annual Compliance Period: October 1 to September 30

Annual Compliance Certification: November 1, 2010 and subsequent years

Note that the Semi-Annual Monitoring Reports and Annual Compliance Certifications must be received at the Division office by 5:00 p.m. on the due date. Postmarked dates will not be accepted for the purposes of determining the timely receipt of those reports/certifications.

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SECTION I - General Activities and Summary

1. Permitted Activities

1.1 This facility is a natural gas compressor station defined under Standard Industrial Classification 1311. The source uses three (3) 2,961 HP IC engine driven gas compressors, two (2) 2,370 HP IC engine driven gas compressors and one (1) 3300 HP IC engine driven compressor, as necessary, to deliver the compressed coalbed methane gas into a pipeline for sales distribution. Three (3) 1,135 HP IC engine driven gas compressors are provided to boost pipeline pressure as necessary. Two (2) emergency generators are located at the facility. Two glycol dehydrators are used to dry the methane gas before entering the pipeline.

The facility is located near Trinidad, Las Animas County, Colorado. The area in which the facility operates is designated as attainment for all criteria pollutants.

New Mexico is an affected state within 50 miles of the plant. No Federal Class I designated areas are within 100 kilometers of the plant.

- 1.2 Until such time as this permit expires or is modified or revoked, the permittee is allowed to discharge air pollutants from this facility in accordance with the requirements, limitations, and conditions of this permit.
- 1.3 This Operating Permit incorporates the applicable requirements contained in the underlying construction permits, and does not affect those applicable requirements, except as modified during review of the application or as modified subsequent to permit issuance using the modification procedures found in Regulation No. 3, Part C. These Part C procedures meet all applicable substantive New Source Review of Part B. Any revisions made using the provisions of Regulation No. 3, Part C shall become new applicable requirements for purposes of this Operating Permit and shall survive reissuance. This Operating Permit incorporates the applicable requirements (except as noted in Section II) from the following Colorado Construction Permit(s):

96LA721-2 97LA524 98LA0567 04LA0302 04LA0303 00LA331 00LA332 00LA333 03LA0054

- 1.4 All conditions in this permit are enforceable by US Environmental Protection Agency, Colorado Air Pollution Control Division (hereinafter Division) and its agents, and citizens unless otherwise specified. **State-only enforceable conditions are:** Permit Condition Number(s): Section IV Conditions 14, 18, 3.g (last paragraph) & 3d.
- 1.5 All information gathered pursuant to the requirements of this permit is subject to the Record keeping and Reporting requirements listed under Condition 22 of the General Conditions in Section IV of this permit. Either electronic or hard copy records are acceptable.

2. Alternative Operating Scenarios (ver 12/10/2008)

The following Alternative Operating Scenario (AOS) for the temporary and permanent replacement of natural gas fired reciprocating internal combustion engines has been reviewed in accordance with the requirements of Regulation No. 3., Part A, Section IV.A, Operational Flexibility-Alternative Operating

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Scenarios, Regulation No. 3, Part B, Construction Permits, and Regulation No. 3, Part D, Major Stationary Source New Source Review and Prevention of Significant Deterioration, and it has been found to meet all applicable substantive and procedural requirements. This permit incorporates and shall be considered a Construction Permit for any engine replacement performed in accordance with this AOS, and the permittee shall be allowed to perform such engine replacement without applying for a revision to this permit or obtaining a new Construction Permit.

2.1 Engine Replacement

The following AOS is incorporated into this permit in order to deal with a compressor engine breakdown or periodic routine maintenance and repair of an existing onsite engine that requires the use of either a temporary or permanent replacement engine. "Temporary" is defined as in the same service for 90 operating days or less in any 12 month period. "Permanent" is defined as in the same service for more than 90 operating days in any 12 month period. The 90 days is the total number of days that the engine is in operation. If the engine operates only part of a day, that day shall count as a single day towards the 90-day total. The compliance demonstrations and any periodic monitoring required by this AOS are in addition to any compliance demonstrations or periodic monitoring required by this permit.

All replacement engines are subject to all federally applicable and state-only requirements set forth in this permit (including monitoring and record keeping), and shall be subject to any shield afforded by this permit.

The results of all tests and the associated calculations required by this AOS shall be submitted to the Division within 30 calendar days of the test or within 60 days of the test if such testing is required to demonstrate compliance with NSPS or MACT requirements. Results of all tests shall be kept on site for five (5) years and made available to the Division upon request.

The permittee shall maintain a log on-site and contemporaneously record the start and stop date of any engine replacement, the manufacturer, date of manufacture, model number, horsepower, and serial number of the engine(s) that are replaced during the term of this permit, and the manufacturer, model number, horsepower, and serial number of the replacement engine. In addition to the log, the permittee shall maintain a copy of all Applicability Reports required under section 2.1.2 and make them available to the Division upon request.

2.1.1 The permittee may **temporarily** replace an existing compressor engine that is subject to the emission limits set forth in this permit with an engine that is of the same manufacturer, model, and horsepower or a different manufacturer, model, or horsepower as the existing engine without modifying this permit, so long as the emissions from the temporary replacement engine comply with the emission limitations for the existing permitted engine as determined in section 2.2. Measurement of emissions from the temporary replacement engine shall be made as set forth in section 2.2.

The permittee may temporarily replace a grandfathered or permit exempt engine or an engine that is not subject to emission limits without modifying this permit. In this circumstance,

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potential annual emissions of NO_x and CO from the temporary replacement engine must be less than or equal to the potential annual emissions of NO_x and CO from the original grandfathered or permit exempt engine or for the engine that is not subject to emission limits, as determined by applying appropriate emission factors (e.g. AP-42 or manufacturer's emission factors)

2.1.2 The permittee may **permanently** replace the existing compressor engine for the emission points specified in Table 1 with the manufacturer, model, and horsepower engines listed in Table 1 without modifying this permit so long as the emissions from the permanent replacement engine comply with 1) the permitted annual emission limitations for the existing engine, 2) any permitted short-term emission limitations for the existing permitted engine, and 3) the applicable emission limitations as set forth in Appendix H. Measurement of emissions from the permanent replacement engine and compliance with the applicable emission limitations shall be made as set forth in section 2.2.

An Air Pollutant Emissions Notice (APEN) that includes the specific manufacturer, model and serial number and horsepower of the permanent replacement engine shall be filed with the Division for the permanent replacement engine within 14 calendar days of commencing operation of the replacement engine. The APEN shall be accompanied by the appropriate APEN filing fee, a cover letter explaining that the permittee is exercising an alternative operating scenario and is installing a permanent replacement engine, and a copy of the relevant Applicability Reports for the replacement engine. Example Applicability Reports can be found in Appendix A. This submittal shall be accompanied by a certification from the Responsible Official indicating that "based on the information and belief formed after reasonable inquiry, the statements and information included in the submittal are true, accurate and complete".

This AOS cannot be used for permanent engine replacement of a grandfathered or permit exempt engine or an engine that is not subject to emission limits.

The permittee shall agree to pay fees based on the normal permit processing rate for review of information submitted to the Division in regard to any permanent engine replacement.

2.2 Portable Analyzer Testing

Note: In some cases there may be conflicting and/or duplicative testing requirements due to overlapping Applicable Requirements. In those instances, please contact the Division Field Services Unit to discuss streamlining the testing requirements.

Note that the testing required by this Condition may be used to satisfy the periodic testing requirements specified by the permit for the relevant time period (i.e. if the permit requires quarterly portable analyzer testing, this test conducted under the AOS will serve as the quarterly test and an additional portable analyzer test is not required for another three months).

The permittee may conduct a reference method test, in lieu of the portable analyzer test required by this Condition, if approved in advance by the Division.

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The permittee shall measure nitrogen oxide (NO_X) and carbon monoxide (CO) emissions in the exhaust from the replacement engine using a portable flue gas analyzer within seven (7) calendar days of commencing operation of the replacement engine.

All portable analyzer testing required by this permit shall be conducted using the Division's Portable Analyzer Monitoring Protocol (ver March 2006 or newer) as found on the Division's website at: http://www.colorado.gov/cs/Satellite/CDPHE-AP/CBON/1251596520270.

Results of the portable analyzer tests shall be used to monitor the compliance status of this unit.

For comparison with an annual (tons/year) or short term (lbs/unit of time) emission limit, the results of the tests shall be converted to a lb/hr basis and multiplied by the allowable operating hours in the month or year (whichever applies) in order to monitor compliance. If a source is not limited in its hours of operation the test results will be multiplied by the maximum number of hours in the month or year (8760), whichever applies.

For comparison with a short-term limit that is either input based (lb/mmBtu), output based (g/hp-hr) or concentration based (ppmvd @ 15% O₂) that the existing unit is currently subject to or the replacement engine will be subject to, the results of the test shall be converted to the appropriate units as described in the above-mentioned Portable Analyzer Monitoring Protocol document.

If the portable analyzer results indicate compliance with both the NO_X and CO emission limitations, in the absence of credible evidence to the contrary, the source may certify that the engine is in compliance with both the NO_X and CO emission limitations for the relevant time period.

Subject to the provisions of C.R.S. 25-7-123.1 and in the absence of credible evidence to the contrary, if the portable analyzer results fail to demonstrate compliance with either the NO_X or CO emission limitations, the engine will be considered to be out of compliance from the date of the portable analyzer test until a portable analyzer test indicates compliance with both the NO_X and CO emission limitations or until the engine is taken offline.

2.3 Applicable Regulations for Permanent Engine Replacements

2.3.1 Reasonably Available Control Technology (RACT): Reg 3, Part B § II.D.2

All permanent replacement engines that are located in an area that is classified as attainment/maintenance or nonattainment must apply Reasonably Available Control Technology (RACT) for the pollutants for which the area is attainment/maintenance or nonattainment. Note that both VOC and NO_X are precursors for ozone. RACT shall be applied for any level of emissions of the pollutant for which the area is in attainment/maintenance or nonattainment, except as follows:

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In the Denver Metropolitan PM_{10} attainment/maintenance area, RACT applies to PM_{10} at any level of emissions and to NO_X and SO_2 , as precursors to PM_{10} , if the potential to emit of NO_X or SO_2 exceeds 40 tons/yr.

For purposes of this AOS, the following shall be considered RACT for natural-gas fired reciprocating internal combustion engines:

VOC: The emission limitations in NSPS JJJJ CO: The emission limitations in NSPS JJJJ NO_X: The emission limitations in NSPS JJJJ

SO₂: Use of natural gas as fuel PM₁₀: Use of natural gas as fuel

As defined in 40 CFR Part 60 Subparts GG (§ 60.331) and 40 CFR Part 72 (§ 72.2), natural gas contains 20.0 grains or less of total sulfur per 100 standard cubic feet.

2.3.2 Control Requirements and Emission Standards: Regulation No. 7, Sections XVI. and XVII.E (State-Only conditions).

Control Requirements: Section XVI

Any permanent replacement engine located within the boundaries of an ozone nonattainment area is subject to the applicable control requirements specified in Regulation No. 7, section XVI, as specified below:

Rich burn engines with a manufacturer's design rate greater than 500 hp shall use a non-selective catalyst and air fuel controller to reduce emission.

Lean burn engines with a manufacturer's design rate greater than 500 hp shall use an oxidation catalyst to reduce emissions.

The above emission control equipment shall be appropriately sized for the engine and shall be operated and maintained according to manufacturer specifications.

The source shall submit copies of the relevant Applicability Reports required under Condition 2.1.2.

Emission Standards: Section XVII.E – State-only requirements

Any permanent engine that is either constructed or relocated to the state of Colorado from another state, after the date listed in the table below shall operate and maintain each engine according to the manufacturer's written instructions or procedures to the extent practicable and consistent with technological limitations and good engineering and maintenance practices over the entire life of the engine so that it achieves the emission standards required in the table below:

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Max Engine HP	Construction or Relocation Date	Emission Standards in G/hp-hr					
		NO _X CO VOC					
100 <hp<500< td=""><td>January 1, 2008</td><td>2.0</td><td>4.0</td><td>1.0</td></hp<500<>	January 1, 2008	2.0	4.0	1.0			
	January 1, 2011	1.0	2.0	0.7			
500 <u><</u> Hp	July 1, 2007	2.0	4.0	1.0			
	July 1, 2010	1.0	2.0	0.7			

The source shall submit copies of the relevant Applicability Reports required under Condition 2.1.2.

2.3.3 NSPS for spark ignition internal combustion engines: 40 CFR 60, Subpart JJJJ

A permanent replacement engine that is manufactured on or after 7/1/09 for emergency engines greater than 25 hp, 7/1/2008 for engines less than 500 hp, 7/1/2007 for engines greater than or equal to 500 hp except for lean burn engines greater than or equal to 500 hp and less than 1,350 hp, and 1/1/2008 for lean burn engines greater than or equal to 500 hp and less than 1,350 hp are subject 40 CFR 60, Subpart JJJJ. An analysis of applicable monitoring, recordkeeping, and reporting requirements for the permanent engine replacement shall be included in the Applicability Reports required under Condition 2.1.2. Any testing required by the NSPS is in addition to that required by this AOS. Note that the initial test required by NSPS Subpart JJJJ can serve as the testing required by this AOS under Condition 2.2, if approved in advance by the Division, provided that such test is conducted within the time frame specified in Condition 2.2.

Note that under the provisions of Regulation No. 6. Part B, section I.B. that Relocation of a source from outside of the State of Colorado into the State of Colorado is considered to be a new source, subject to the requirements of Regulation No. 6 (i.e., the date that the source is first relocated to Colorado becomes equivalent to the manufacture date for purposes of determining the applicability of NSPS JJJJ requirements).

However, as of November 1, 2008 the Division has not yet adopted NSPS JJJJ. Until such time as it does, any engine subject to NSPS will be subject only under Federal law. Once the Division adopts NSPS JJJJ, there will be an additional step added to the determination of the NSPS. Under the provisions of Regulation No. 6, Part B, § I.B (which is referenced in Part A), any engine relocated from outside of the State of Colorado into the State of Colorado is considered to be a new source, subject to the requirements of NSPS JJJJ.

2.3.4 Reciprocating internal combustion engine (RICE) MACT: 40 CFR Part 63, Subpart ZZZZ

2.3.4.1 Area Source for HAPs

A permanent replacement engine located at an area source that commenced construction or reconstruction after June 12, 2006 as defined in § 63.2, will meet the requirements of 40 CFR

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Part 63, Subpart ZZZZ by meeting the requirements of 40 CFR Part 60, Subpart JJJJ. An analysis of the applicable monitoring, recordkeeping, and reporting requirements for the permanent engine replacement shall be included in the Applicability Reports required under Condition 2.1.2. Any testing required by the MACT is in addition to that required by this AOS. Note that the initial test required by the MACT can serve as the testing required by this AOS under Condition 2.2, if approved in advance by the Division, provided that such test is conducted within the time frame specified in Condition 2.2.

2.3.4.2 Major source for HAPs

A permanent replacement engine that is located at major source is subject to the requirements in 40 CFR Part 63 Subpart ZZZZ as follows:

Existing, new or reconstructed spark ignition 4 stroke rich burn engines with a site rating of more than 500 hp are subject to the requirements in 40 CFR Part 63 Subpart ZZZZ.

New or reconstructed (construction or reconstruction commenced after 12/19/02) 2 stroke and 4 stroke lean burn engines with a site rating of more than 500 hp are subject to the requirements in 40 CFR Part 63 Subpart ZZZZ.

New or reconstructed (construction or reconstruction commenced after 6/12/06) 4 stroke lean burn engines with a site rating of greater than or equal to 250 but less or equal to 500 hp and were manufactured on or after 1/1/08 are subject to the requirements in 40 CFR Part 63 Subpart ZZZZ.

New or reconstructed (construction or reconstruction commenced after 6/12/06) 2 stroke lean burn or 4 stroke rich burn engines with a site rating of 500 hp or less will meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ.

New or reconstructed (construction or reconstruction commenced after 6/12/06) 4 stroke lean burn engines with a site rating of less than 250 hp will meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart JJJJ.

An analysis of the applicable monitoring, recordkeeping, and reporting requirements for the permanent engine replacement shall be included in the Applicability Reports required under Condition 2.1.2. Any testing required by the MACT is in addition to that required by this AOS. Note that the initial test required by the MACT can serve as the testing required by this AOS under Condition 2.2, if approved in advance by the Division, provided that such test is conducted within the time frame specified in Condition 2.2.

2.3.5 Additional Sources

The replacement of an existing engine with a new engine is viewed by the Division as the installation of a new emissions unit, not "routine replacement" of an existing unit. The AOS is therefore essentially an

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advanced construction permit review. The AOS cannot be used for additional new emission points for any site; an engine that is being installed as an entirely new emission point and not as part of an AOS-approved replacement of an existing onsite engine has to go through the appropriate Construction/Operating permitting process prior to installation.

Table 1
Internal Combustion Engine Information for the AOS

Emission Point	Replacement Engine	Periodic Monitoring?	Subject to CAM?
CS05	Caterpillar 3612 (2961 HP) w/ Oxidizing Catalyst	Portable Monitoring Quarterly	No
CS06	Caterpillar 3612 (2961 HP) w/ Oxidizing Catalyst		
CS08	Caterpillar 3612 (2961 HP) w/ Oxidizing Catalyst		
CS09	Caterpillar 3608 (2370 HP) w/ Oxidizing Catalyst		
CS10	Caterpillar 3608 (2370 HP) w/ Oxidizing Catalyst		
CS11	Caterpillar 3612 (3300 HP) w/ Oxidizing Catalyst		
BCS1	Caterpillar G3516 (1135 HP), Low NOx design, w/ Oxidizing Catalyst		
BCS2	Caterpillar 3516 (1135 HP), Low NOx design, w/ Oxidizing Catalyst		
BCS3	Caterpillar 3516 (1135 HP), Low NOx design, w/ Oxidizing Catalyst		

3. Prevention of Significant Deterioration/New Source Review (PSD/NSR)

- 3.1 Based on the information provided by the applicant, this source is categorized as a synthetic minor stationary source for PSD as of the issue date of this permit. Any future modification which is major by itself (Potential to Emit of \geq 250 TPY) for any pollutant listed in Regulation No. 3, Part D, Section II.A.42 for which the area is in attainment or attainment/maintenance may result in the application of the PSD review requirements
- 3.2 There are no other Operating Permits associated with this facility for purposes of determining applicability of Prevention of Significant Deterioration regulations.

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4. Accidental Release Prevention Program (112(r))

4.1 Based on the information provided by the applicant, this facility is not subject to the provisions of the Accidental Release Prevention Program (Section 112(r) of the Federal Clean Air Act).

5. Compliance Assurance Monitoring (CAM)

5.1 The following emission points at this facility use a control device to achieve compliance with an emission limitation or standard to which they are subject and have pre-control emissions that exceed or are equivalent to the major source threshold. They are therefore subject to the provisions of the CAM program as set forth in 40 CFR Part 64, as adopted by reference in Colorado Regulation No. 3, Part C, Section XIV:

None.

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6. Summary of Emission Units

6.1 The emissions units regulated by this permit are the following:

Emission Unit Number	AIRS ID Number	Description	Pollution Control Device	Construction Permit
BCS1	017	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HP SN 4EK02878	Johnson Matthey BX-3 CO Oxidizing Catalyst SN PF 0138	00LA331 Modification 1
BCS2	018	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HP SN 4EK02903	Johnson Matthey BX-3 CO Oxidizing Catalyst SN PF 0137	00LA332 Modification 1
BCS3	019	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HP SN 4EK02906	Johnson Matthey BX-3 CO Oxidizing Catalyst SN PF 0144	00LA333 Modification 1
CS05	009	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP, Two stacks. SN: 1YG00100	Johnson Matthey BX-70 CO Oxidizing Catalyst SN 191 SN 204	96LA721-2 Modification 2
CS06	010	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controller, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP, Two stacks. SN: 1YG00109.	Johnson Matthey BX-70 CO Oxidizing Catalyst SN 173 SN 174	97LA524 Modification 2
CS08	012	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controller, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP, Two stacks. SN: 1YG00123R	Johnson Matthey BX-70 CO Oxidizing Catalyst SN PF 2111 SN PF 2089	98LA0567 Modification 2

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Emission Unit Number	AIRS ID Number	Description	Pollution Control Device	Construction Permit
CS09	021	Caterpillar 3608, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,370 HP. SN: BEN00251	CO Oxidizing Catalyst	04LA0302 Modification 1
CS10	022	Caterpillar 3608, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,370 HP. SN: BEN00349	CO Oxidizing Catalyst	04LA0303 Modification 1
CS11	020	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 3300 HP, Two stacks. SN: 1YG00155	Johnson Matthey BX-70 CO Oxidizing Catalyst SN 208 SN 296	03LA0054
D01	024	Pesco Triethylene Glycol Dehydrator, Design Rated at 50 MMscfd	None	
D02	025	Pesco Triethylene Glycol Dehydrator, Design Rated at 50 MMscfd	None	

SECTION II - Specific Permit Terms

1. Nine (9) Natural Gas-Fired Stationary Reciprocating Internal Combustion Engines

CS05, CS06, CS08

BCS1, BCS2, BCS3

CS11

CS09, CS10

Caterpillar 3612 - 2,961 HP Engines with Oxidizing Catalysts

Caterpillar 3516 - 1,135 HP Engines with Oxidizing Catalysts

Caterpillar 3612 - 3,300 HP Engine with Oxidizing Catalyst

Caterpillar 3608 - 2,370 HP Engines with Oxidizing Catalysts

NOTE: The following terms and conditions apply to each engine individually

Parameter	Permit		Limitations			Monitoring	
	Condition Number	Short Term Long Term Emi		Emission Factor	Method	Interval	
Emission & Const CS05 – Caterpilla CS06 – Caterpilla CS08 – Caterpilla	r 3612 - 2,961HP r 3612 - 2,961HP	Compressor Compressor	Engine	ually)			
NO_X			22.9 tons per year	0.232 lb/MMBtu			
VOC	1		3.0 tons per year	0.030 lb/MMBtu	Record keeping and		
СО	1.1		10.7 tons per year	0.109 lb/MMBtu	calculation 12 month rolling total	Monthly	
Formaldehyde			9.5 tons per year (Facility-Wide)	0.015 lb/MMBtu			
Natural Gas Consumption	1.2		219.0 MMscf per year		Facility Fuel Meter 12 month rolling total	Monthly	
Emission & Consu BCS1 – Caterpilla BCS2 – Caterpilla BCS3 – Caterpilla	nr 3516 - 1,135 HP nr 3516 - 1,135 HP	Compresso	or Engine	ually)			
NO_X			21.9 tons per year	0.538 lb/MMBtu			
VOC			0.7 tons per year	0.016 lb/MMBtu	Record keeping and calculation		
СО	1.1		3.3 tons per year	0.081 lb/MMBtu	12 month rolling total	Monthly	
Formaldehyde			9.5 tons per year (Facility-Wide)	0.008 lb/MMBtu			
Natural Gas Consumption	1.2		90.6 MMscf per year		Facility Fuel Meter 12 month rolling total	Monthly	

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Parameter	Permit Condition Number	Short Term Long Term		Compliance Emission Factor	Monitoring Method Interval	
Emission & Consu CS11 – Caterpilla		Compressor	Engine			
NO_X			25.5 tons per year	0.232 lb/MMBtu		
VOC			3.3 tons per year	0.030 lb/MMBtu	Record keeping and calculation	Manalaha
СО	1.1		11.9 tons per year	0.109 lb/MMBtu	12 month rolling total	Monthly
Formaldehyde			9.5 tons per year (Facility-Wide)	0.015 lb/MMBtu		
Natural Gas Consumption			244.1 MMscf per year		Facility Fuel Meter 12 month rolling total	Monthly
Control of emissions from new, modified, existing, and relocated natural gas fired reciprocating internal combustion engines.	1.10				See Condition 1.10	
Emission & Consu CS09 – Caterpilla	mption Limits (li r 3608 - 2,370 HP	mits apply to	each engine individu Engine	<u>ially)</u>		
CS10 – Caterpilla				T	T	
NO_X			18.3 tons per year	0.232 lb/MMBtu		
VOC			2.4 tons per year	0.030 lb/MMBtu	Record keeping and calculation	Monthly
СО	1.1		8.6 tons per year	0.109 lb/MMBtu	12 month rolling total	Monthly
Formaldehyde			9.5 tons per year (Facility-Wide)	0.015 lb/MMBtu		
Natural Gas Consumption	1.2		175.3 MMscf per year		Facility Fuel Meter 12 month rolling total	Monthly

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Parameter	Permit Limitations			Compliance	Monitorin	.g	
	Condition Number	Short Term Long Term		Emission Factor	Method	Interval	
Other Requirements (apply to each engine individually) CS05 - Caterpillar 3612 - 2,961HP Compressor Engine CS06 - Caterpillar 3612 - 2,961HP Compressor Engine CS08 - Caterpillar 3612 - 2,961HP Compressor Engine BCS1 - Caterpillar 3516 - 1,135 HP Compressor Engine BCS2 - Caterpillar 3516 - 1,135 HP Compressor Engine BCS3 - Caterpillar 3516 - 1,135 HP Compressor Engine CS11 - Caterpillar 3612 - 3,300 HP Compressor Engine CS09 - Caterpillar 3608 - 2,370 HP Compressor Engine CS10 - Caterpillar 3608 - 2,370 HP Compressor Engine							
Btu content of natural gas	1.3					ASTM or other Division Approved Method	Semi- Annually
Oxidizing Catalyst Parameters	1.4	Keep parameters within manufacturer's range				Thermometers or thermocouple, differential pressure measurement and oxygen content measurement	See Condition 1.4
Opacity	1.5	Not to Exceed 20%				Fuel Restriction - Only Natural Gas is Used as Fuel	
Portable Monitoring	3.1					Flue Gas Analyzer	Quarterly
Operation & Maintenance	1.6						
Operating Hours	1.7					Record keeping	Monthly
Inlet/Outlet CO	1.8	85% CO Reduction			Flue Gas Analyzer	Semi- Annually	
Insignificant Activities	1.9		emissi to ex 1,000	ldehyde ons not xceed pounds year		Recordkeeping and calculation	Annually

1.1 Nitrogen Oxide (NOx), Carbon Monoxide (CO) and Volatile Organic Compound (VOC) emissions from each engine shall not exceed the limitations stated above (Colorado Construction Permits 96LA721-2, 97LA0524, 98LA0567, 00LA0331, 00LA0332, 00LA0333, 03LA0054, 04LA0302 and 04LA0303 as modified under the provisions of Section I, Condition 1.3). Except as provided for below, the emission

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factors listed above (from manufacturer, converted to lbs/MMBtu based on an applicable engine heat rate of 7,600 Btu/hp-hr for engine models 3612 and 3608, and 8,200 Btu/hp-hr for engine model 3516) have been approved by the Division and shall be used to calculate emissions from each engine, as follows:

Monthly emissions shall be calculated by the end of the subsequent month using the above emission factor, the monthly natural gas consumption and the lower heating value of the fuel in the equation below:

 $Tons/mo = \underline{CEF (lbs/MMBtu) \ x \ Monthly \ Fuel \ Use \ (MMscf/mo) \ x \ Heat \ Content \ of \ Fuel \ (MMBTU/MMscf)}}{2000 \ lbs/ton}$

A twelve month rolling total of emissions will be maintained in order to monitor compliance with the annual emission limitation. Each month, a new twelve month total shall be calculated using the previous twelve months data.

If the results of the portable analyzer testing conducted under the provisions of 3.1 show that either the NOx or CO emission rates/factors are greater than those listed above, and in the absence of subsequent testing results to the contrary (as approved by the Division), the permittee shall apply for a modification to this permit to reflect, at a minimum, the higher emission rates/factors within 60 days of the completion of the test.

- Natural gas consumption **for each engine** shall not exceed the limitation stated above (Colorado Construction Permits 96LA721-2, 97LA0524, 98LA0567, 00LA0331, 00LA0332, 00LA0333, 03LA0054, 04LA0302 and 04LA0303, as modified under the provisions of Section I, Condition 1.3). Within the first seven calendar days of each month, fuel use shall be recorded using the existing fuel meter. Allocation of fuel use to each engine shall be made using the methods detailed in Appendix G. A twelve (12) month rolling total shall be maintained to determine compliance with annual fuel use limitation. By the end of each new calendar month a total shall be calculated for the previous twelve (12) calendar months, and compliance determined. Records of the calculations and compliance determinations shall be maintained. The calculation and compliance determination records shall be made available to the Division for review upon request.
- 1.3 The Btu content of the natural gas used to fuel these engines shall be verified semiannually using the appropriate ASTM Methods or equivalent, if approved in advance by the Division. The Btu content of the natural gas shall be based on the lower heating value of the fuel. Calculations of monthly emissions shall be made using the heat content derived from the most recent required analysis. The Btu value used by the Division in determining emission limits was 900 Btu per standard cubic foot of natural gas. The Btu value was provided by the APENs submitted on December 20, 2004 and thereafter.
- 1.4 Parameters associated with each oxidizing catalyst unit shall be monitored as follows:
 - 1.4.1 The catalyst inlet temperature shall be monitored and recorded daily and kept within the manufacturer's specified range. The manufacturer's values or range of values shall be indicated

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along with the record of the daily readings for immediate reference. The catalyst inlet temperature shall also be monitored and recorded during portable monitoring events required by Condition 3. Records of the catalyst inlet temperature monitoring shall be maintained for Division inspection upon request.

- 1.4.2 The pressure drop across the catalyst shall be monitored and recorded monthly and kept within the manufacturer's specified range. The manufacturer's values or range of values shall be indicated along with the record of the monthly readings for immediate reference. The pressure drop across the catalyst shall also be monitored and recorded during portable monitoring events required by Condition 3. Records of the pressure differential monitoring shall be maintained for Division inspection upon request.
- 1.4.3 The engine exhaust oxygen content shall be monitored and recorded during portable monitoring events required by Condition 3, and kept within the manufacturer's specified range. The manufacturer's values or range of values shall be indicated along with the record of the engine exhaust oxygen content readings for immediate reference. Records of the exhaust oxygen content monitoring shall be maintained for Division inspection upon request.
- 1.5 No owner or operator of a source shall allow or cause to be emitted into the atmosphere any air pollutant which is in excess of 20% opacity (Colorado Construction Permits 96LA721-2, 97LA0524, 98LA0567, 00LA0331, 00LA0332, 00LA0333, 03LA0054, 04LA0302 and 04LA0303 and Colorado Regulation No. 1, Section II.A.1). In the absence of credible evidence to the contrary, compliance with the 20% opacity limit shall be presumed since only natural gas is permitted to be used as fuel for this engine.
- 1.6 Each engine shall be operated and maintained in accordance with internal operating and maintenance standards, which shall consider manufacturer's recommendations and good engineering practices, at all times, including periods of start-up, shut-down and malfunction.
- 1.7 The number of operating hours for each individual engine shall be recorded for each calendar month. The records shall be made available for Division review upon request.
- 1.8 The carbon monoxide (CO) and oxygen (O₂) levels shall be measured from the pre and post-catalyst exhaust gas streams on a semi-annual basis and the carbon monoxide reduction shall meet or exceed the limitation stated above (Colorado Construction Permits 96LA721-2, 97LA0524, 98LA0567, 00LA0331, 00LA0332, 00LA0333, 03LA0054, 04LA0302 and 04LA0303, as modified under the provisions of Section I, Condition 1.3). These measurements shall be performed and recorded during a portable monitoring event. At least one calendar month shall separate the semi-annual tests. Note that if the engine is operated for less than 100 hrs in any semiannual period, then this semiannual portable monitoring requirement shall not apply. Records shall be made available for Division review upon request.

All portable analyzer testing required by this permit shall be conducted using the Division's Portable Analyzer Monitoring Protocol (ver March 2006 or newer) as found on the Division's website at: http://www.colorado.gov/cs/Satellite/CDPHE-AP/CBON/1251596520270.

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- Emissions of formaldehyde from all insignificant activities shall not exceed 1,000 lb/yr (Colorado Construction Permits 96LA721-2, 97LA0524, 98LA0567, 00LA0331, 00LA0332, 00LA0333, 03LA0054, 04LA0302 and 04LA0303 as modified under the provisions of Section I, Condition 1.3). The owner or operator shall track emissions from all insignificant activities on an annual basis. For the purposes of this condition, insignificant activities shall be defined as any activity or equipment which emits any amount but does not require an Air Pollutant Emission Notice (APEN). The calculations and any supporting documentation shall be made available to the Division upon request.
- 1.10 Compressor Engine CS11 is subject to the control requirements for natural gas-fired reciprocating internal combustion engines under Regulation No. 7, Section XVII.E.2 (State only enforceable).
 - 1.10.1 The owner or operator of any natural gas fired reciprocating internal combustion engine that is either constructed or relocated to the state of Colorado from another state, on or after the date listed in the table below shall operate and maintain each engine according to the manufacturer's written instructions or procedures to the extent practicable and consistent with technological limitations and good engineering and maintenance practices over the entire life of the engine so that it achieves the emission standards required in the table below (Regulation No. 7, Section XVII.E.2.a)
 - 1.10.2 Actual emissions from natural gas fired reciprocating internal combustion engines shall not exceed the emission performance standards in the table below as expressed in units of grams per horsepower-hour (g/hp-hr) (Regulation No. 7, Section XVII.E.2.b)

Maximum Engine HP	Construction or Relocation Date	Emission Standard in g/hp-hr		
		NOx	CO	VOC
500 <hp< td=""><td>On or after July 1, 2007</td><td>2.0</td><td>4.0</td><td>1.0</td></hp<>	On or after July 1, 2007	2.0	4.0	1.0

2. D01 and D02 - Two Pesco Triethylene Glycol Dehydrators (50 MMscfd each)

Parameter	Permit	Limit	ations	Compliance	Monitoring	
	Condition Number	Short Term	Long Term	Emission Factor	Method	Interval
40 CFR Part 63 Subpart HH	See Condition 2.1, 2.2 and 2.3 below					
General Standards	2.1	See Cond	dition 2.1			
Test Methods, Compliance Procedures and Compliance Demonstration	2.2				See Condition 2.2	Annual
Recordkeeping Requirements	2.3	See Condition 2.3				
General Provisions	2.4	See Condition 2.4				

These dehydrators are subject to the TEG dehydrator area source requirements of 40 CFR, Part 63, Subpart HH - National Emission Standards for Hazardous Air Pollutants for Source Categories from Oil and Natural Gas Production Facilities. The following requirements apply:

General Standards:

- 863.764 (e)(1) -The owner or operator is exempt from the requirements of paragraph (c)(1) and (d) of this section if the criteria listed in paragraph (e)(1)(i) or (ii) of this section are met, except that the records of the determination of these criteria must be maintained as required in 863.774(d)(1).
 - 2.1.1 §63.764 (e)(1)(i) The actual annual average flowrate of natural gas to the glycol dehydration unit is less than 85 thousand standard cubic meters per day (3.0 MMSCF/day), as determined by the procedures specified in §63.772(b)(1) of this subpart; or
 - 2.1.2 §63.764 (e)(1)(ii) The actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere are less than 0.90 megagram per year, as determined by the procedures specified in §63.772(b)(2) of this subpart.

Test Methods, Compliance Procedures and Compliance Demonstration:

\$63.772(b) - Determination of glycol dehydration unit flowrate or benzene emissions. The procedures of this paragraph shall be used by an owner or operator to determine glycol dehydration unit natural gas flowrate or benzene emissions to meet the criteria for an exemption from control requirements under \$63.764(e)(1).

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- 2.2.1 §63.772(b)(1) The determination of actual flowrate of natural gas to a glycol dehydration unit shall be made using the procedures of either paragraph (b)(1)(i) or (b)(1)(ii) of this section.
 - 2.2.1.1 §63.772(b)(1)(i) The owner or operator shall install and operate a monitoring instrument that directly measures natural gas flowrate to the glycol dehydration unit with an accuracy of plus or minus 2 percent or better. The owner or operator shall convert annual natural gas flowrate to a daily average by dividing the annual flowrate by the number of days per year the glycol dehydration unit processed natural gas.
 - 2.2.1.2 §63.772(b)(1)(ii) The owner or operator shall document, to the Administrator's satisfaction, that the actual annual average natural gas flowrate to the glycol dehydration unit is less than 85 thousand standard cubic meters per day.
- 2.2.2 §63.772(b)(2) The determination of actual average benzene emissions from a glycol dehydration unit shall be made using the procedures of either paragraph (b)(2)(i) or (b)(2)(ii) of this section. Emissions shall be determined either uncontrolled, or with federally enforceable controls in place.
 - 2.2.2.1 §63.772(b)(2)(i) The owner or operator shall determine actual average benzene emissions using the model GRI-GLYCalc TM , Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc TM Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration unit and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1); or
 - 2.2.2.2 §63.772(b)(2)(ii) The owner or operator shall determine an average mass rate of benzene emissions in kilograms per hour through direct measurement using the methods in §63.772(a)(1)(i) or (ii), or an alternative method according to §63.7(f). Annual emissions in kilograms per year shall be determined by multiplying the mass rate by the number of hours the unit is operated per year. This result shall be converted to megagrams per year.

Recordkeeping Requirements:

- 2.3 §63.774 (d)(1) An owner or operator of a glycol dehydration unit that meets the exemption criteria in §63.764(e)(1)(i) or §63.764(e)(1)(ii) shall maintain the records specified in paragraph (d)(1)(i) or paragraph (d)(1)(ii) of this section, as appropriate, for that glycol dehydration unit.
 - 2.3.1 §63.774 (d)(1)(i) The actual annual average natural gas throughput (in terms of natural gas flowrate to the glycol dehydration unit per day) as determined in accordance with §63.772(b)(1), or
 - 2.3.2 §63.774 (d)(1)(ii) The actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with §63.772(b)(2).

General Provisions:

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- 2.4 These dehydrators are subject to the requirements in 40 CFR part 63 Subpart A "General Provisions", as adopted by reference in Colorado Regulation No. 8, Part E, Section I as specified in 40 CFR Part 63 Subpart HH § 63.764. These requirements include, but are not limited to the following:
 - 2.4.1 Prohibited activities and circumvention in § 63.4.
 - 2.4.2 Operation and maintenance requirements in § 63.6(e)(1).

3. Portable Monitoring (version 6/1/2006)

3.1 Emission measurements of nitrogen oxides (NO_X) and carbon monoxide (CO) shall be conducted quarterly using a portable flue gas analyzer. At least one calendar month shall separate the quarterly tests. Note that if the engine is operated for less than 100 hrs in any quarterly period, then the portable monitoring requirements do not apply.

If the engine reaches 100 hours of use for a quarter during the last calendar month of that quarter (and portable monitoring was not conducted on that engine during the quarter), then portable testing shall be performed within thirty calendar days from the end of the calendar month during which the engine exceeded 100 hours. In this case, the test date could occur within the following quarter, but the test results will only be valid for the quarter in which the testing was originally required.

All portable analyzer testing required by this permit shall be conducted using the Division's Portable Analyzer Monitoring Protocol (ver March 2006 or newer) as found on the Division's website at: http://www.colorado.gov/cs/Satellite/CDPHE-AP/CBON/1251596520270.

Results of the portable analyzer tests shall be used to monitor the compliance status of this unit. For comparison with an annual or short term emission limit, the results of the tests shall be converted to a lb/hr basis and multiplied by the allowable operating hours in the month or year (whichever applies) in order to monitor compliance. If a source is not limited in its hours of operation the test results will be multiplied by the maximum number of hours in the month or year (8760), whichever applies.

If the portable analyzer results indicate compliance with both the NOX and CO emission limitations, in the absence of credible evidence to the contrary, the source may certify that the engine is in compliance with both the NOX and CO emission limitations for the relevant time period.

Subject to the provisions of C.R.S. 25-7-123.1 and in the absence of credible evidence to the contrary, if the portable analyzer results fail to demonstrate compliance with either the NOX or CO emission limitations, the engine will be considered to be out of compliance from the date of the portable analyzer test until a portable analyzer test indicates compliance with both the NOX and CO emission limitations or until the engine is taken offline.

For comparison with the emission rates/factors, the emission rates/factors determined by the portable analyzer tests and approved by the Division shall be converted to the same units as the emission rates/factors in the permit. If the portable analyzer tests shows that either the NOX or CO emission rates/factors are greater than the relevant ones set forth in the permit, and in the absence of subsequent testing results to the contrary (as approved by the Division), the permittee shall apply for a modification to this permit to reflect, at a minimum, the higher emission rate/factor within 60 days of the completion of the test.

Results of all tests conducted shall be kept on site, or at a local field office, and made available to the Division upon request.

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SECTION III - Permit Shield

Colorado Regulation No. 3, 5 CCR 1001-5, Part A, §I.B.44; Part C, §§V.C.1.b. & V.D., XIII.B; §§25-7-111(2)(I), 25-7-114.4(3)(a), C.R.S.

1. Specific Non-Applicable Requirements

Based upon information available to the Division and supplied by the applicant, the following parameters and requirements have been specifically identified as non-applicable to the facility to which this permit has been issued. This shield does not protect the source from any violations that occurred prior to or at the time of permit issuance. In addition, this shield does not protect the source from any violations that occur as a result of any modifications or reconstruction on which construction commenced prior to permit issuance.

Emission Unit Description &Number	Applicable Requirement	Justification	
Facility	40 CFR Part 63, Subpart HHH (MACT standard for natural gas transmission and storage facilities)	This requirement does not apply to this facility because the facility is not a natural gas transmission and storage facility within the meaning of 40 CFR Part 63 Subpart HHH.	
	40 CFR Part 63 §63.764(d) (MACT standards for triethylene glycol dehydrators at an existing or new area source of HAP emissions).	The facility is except from the requirements of this section because it meets the exemption(s) of 40 CFR Part 63 §63.764(e)(1)(ii). The actual average emissions of benzene from the glycol dehydration unit process vents to the atmosphere are less than 0.90 megagrams per year. This permit shield is contingent upon the owner or operator demonstrating that the exemption applies as specified in 40 CFR Part 63 §§63.772(b)(1) and/or (b)(2) and maintaining records as specified by 40 CFR Part 63 §63.774(d)(1).	
	Acid Rain Provisions of Title IV of the Clean Air Act, 40 CFR 72-78 (Colorado Regulation No. 18)	This requirement does not apply to this facility because the facility does not generate electricity for sale.	
	The Accidental Release Prevention Program of the Clean Air Act, 40 CFR 68	This requirement does not apply to this facility because the facility does not store more than a threshold quantity of a regulated substance in a process.	

2. General Conditions

Compliance with this Operating Permit shall be deemed compliance with all applicable requirements specifically identified in the permit and other requirements specifically identified in the permit as not applicable to the source. This permit shield shall not alter or affect the following:

- 2.1 The provisions of §§ 25-7-112 and 25-7-113, C.R.S., or § 303 of the federal act, concerning enforcement in cases of emergency;
- 2.2 The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

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- 2.3 The applicable requirements of the federal Acid Rain Program, consistent with § 408(a) of the federal act;
- 2.4 The ability of the Air Pollution Control Division to obtain information from a source pursuant to § 25-7-111(2)(I), C.R.S., or the ability of the Administrator to obtain information pursuant to § 114 of the federal act;
- 2.5 The ability of the Air Pollution Control Division to reopen the Operating Permit for cause pursuant to Regulation No. 3, Part C, § XIII.
- 2.6 Sources are not shielded from terms and conditions that become applicable to the source subsequent to permit issuance.

3. Streamlined Conditions

The following applicable requirements have been subsumed within this operating permit using the pertinent streamlining procedures approved by the U.S. EPA. For purposes of the permit shield, compliance with the listed permit conditions will also serve as a compliance demonstration for purposes of the associated subsumed requirements.

Permit Condition	Streamlined (Subsumed) Requirements
NONE	

SECTION IV - General Permit Conditions (Ver 02/20/07)

1. Administrative Changes

Regulation No. 3, 5 CCR 1001-5, Part A, §III.

The permittee shall submit an application for an administrative permit amendment to the Division for those permit changes that are described in Regulation No. 3, Part A, §I.B.1. The permittee may immediately make the change upon submission of the application to the Division.

2. Certification Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, §§III.B.9., V.C.16.a. & e. and V.C.17.

- a. Any application, report, document and compliance certification submitted to the Air Pollution Control Division pursuant to Regulation No. 3 or the Operating Permit shall contain a certification by a responsible official of the truth, accuracy and completeness of such form, report or certification stating that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
- b. All compliance certifications for terms and conditions in the Operating Permit shall be submitted to the Air Pollution Control Division at least annually unless a more frequent period is specified in the applicable requirement or by the Division in the Operating Permit.
- c. Compliance certifications shall contain:
 - (i) the identification of each permit term and condition that is the basis of the certification;
 - (ii) the compliance status of the source;
 - (iii) whether compliance was continuous or intermittent;
 - (iv) method(s) used for determining the compliance status of the source, currently and over the reporting period; and
 - (v) such other facts as the Air Pollution Control Division may require to determine the compliance status of the source.
- d. All compliance certifications shall be submitted to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit.
- e. If the permittee is required to develop and register a risk management plan pursuant to § 112(r) of the federal act, the permittee shall certify its compliance with that requirement; the Operating Permit shall not incorporate the contents of the risk management plan as a permit term or condition.

3. Common Provisions

Common Provisions Regulation, 5 CCR 1001-2 §§ II.A., II.B., II.C., II,E., II.F., II.I, and II.J

a. To Control Emissions Leaving Colorado

When emissions generated from sources in Colorado cross the State boundary line, such emissions shall not cause the air quality standards of the receiving State to be exceeded, provided reciprocal action is taken by the receiving State.

b. Emission Monitoring Requirements

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The Division may require owners or operators of stationary air pollution sources to install, maintain, and use instrumentation to monitor and record emission data as a basis for periodic reports to the Division.

c. Performance Testing

The owner or operator of any air pollution source shall, upon request of the Division, conduct performance test(s) and furnish the Division a written report of the results of such test(s) in order to determine compliance with applicable emission control regulations.

Performance test(s) shall be conducted and the data reduced in accordance with the applicable reference test methods unless the Division:

- (i) specifies or approves, in specific cases, the use of a test method with minor changes in methodology;
- (ii) approves the use of an equivalent method;
- (iii) approves the use of an alternative method the results of which the Division has determined to be adequate for indicating where a specific source is in compliance; or
- (iv) waives the requirement for performance test(s) because the owner or operator of a source has demonstrated by other means to the Division's satisfaction that the affected facility is in compliance with the standard.
 Nothing in this paragraph shall be construed to abrogate the Commission's or Division's authority to require testing under the Colorado Revised Statutes, Title 25, Article 7, and pursuant to regulations promulgated by the Commission.

Compliance test(s) shall be conducted under such conditions as the Division shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Division such records as may be necessary to determine the conditions of the performance test(s). Operations during period of startup, shutdown, and malfunction shall not constitute representative conditions of performance test(s) unless otherwise specified in the applicable standard.

The owner or operator of an affected facility shall provide the Division thirty days prior notice of the performance test to afford the Division the opportunity to have an observer present. The Division may waive the thirty day notice requirement provided that arrangements satisfactory to the Division are made for earlier testing.

The owner or operator of an affected facility shall provide, or cause to be provided, performance testing facilities as follows:

- (i) Sampling ports adequate for test methods applicable to such facility;
- (ii) Safe sampling platform(s);
- (iii) Safe access to sampling platform(s); and
- (iv) Utilities for sampling and testing equipment.

Each performance test shall consist of at least three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic mean of results of at least three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances beyond the owner or operator's control, compliance may, upon the Division's approval, be determined using the arithmetic mean of the results of the two other runs.

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Nothing in this section shall abrogate the Division's authority to conduct its own performance test(s) if so warranted.

d. Affirmative Defense Provision for Excess Emissions during Malfunctions

Note that until such time as the U.S. EPA approves this provision into the Colorado State Implementation Plan (SIP), it shall be enforceable only by the State.

An affirmative defense to a claim of violation under these regulations is provided to owners and operators for civil penalty actions for excess emissions during periods of malfunction. To establish the affirmative defense and to be relieved of a civil penalty in any action to enforce an applicable requirement, the owner or operator of the facility must meet the notification requirements below in a timely manner and prove by a preponderance of evidence that:

- (i) The excess emissions were caused by a sudden, unavoidable breakdown of equipment, or a sudden, unavoidable failure of a process to operate in the normal or usual manner, beyond the reasonable control of the owner or operator;
- (ii) The excess emissions did not stem from any activity or event that could have reasonably been foreseen and avoided, or planned for, and could not have been avoided by better operation and maintenance practices;
- (iii) Repairs were made as expeditiously as possible when the applicable emission limitations were being exceeded;
- (iv) The amount and duration of the excess emissions (including any bypass) were minimized to the maximum extent practicable during periods of such emissions;
- (v) All reasonably possible steps were taken to minimize the impact of the excess emissions on ambient air quality;
- (vi) All emissions monitoring systems were kept in operation (if at all possible);
- (vii) The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs or other relevant evidence;
- (viii) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation, or maintenance;
- (ix) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions. This section is intended solely to be a factor in determining whether an affirmative defense is available to an owner or operator, and shall not constitute an additional applicable requirement; and
- (x) During the period of excess emissions, there were no exceedances of the relevant ambient air quality standards established in the Commissions' Regulations that could be attributed to the emitting source.

The owner or operator of the facility experiencing excess emissions during a malfunction shall notify the division verbally as soon as possible, but no later than noon of the Division's next working day, and shall submit written notification following the initial occurrence of the excess emissions by the end of the source's next reporting period. The notification shall address the criteria set forth above.

The Affirmative Defense Provision contained in this section shall not be available to claims for injunctive relief.

The Affirmative Defense Provision does not apply to failures to meet federally promulgated performance standards or emission limits, including, but not limited to, new source performance standards and national emission standards for hazardous air pollutants. The affirmative defense provision does not apply to state implementation plan (sip) limits or permit limits that have been set taking into account potential emissions during malfunctions, including, but

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not necessarily limited to, certain limits with 30-day or longer averaging times, limits that indicate they apply during malfunctions, and limits that indicate they apply at all times or without exception.

e. Circumvention Clause

A person shall not build, erect, install, or use any article, machine, equipment, condition, or any contrivance, the use of which, without resulting in a reduction in the total release of air pollutants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of this regulation. No person shall circumvent this regulation by using more openings than is considered normal practice by the industry or activity in question.

f. Compliance Certifications

For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in the Colorado State Implementation Plan, nothing in the Colorado State Implementation Plan shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. Evidence that has the effect of making any relevant standard or permit term more stringent shall not be credible for proving a violation of the standard or permit term.

When compliance or non-compliance is demonstrated by a test or procedure provided by permit or other applicable requirement, the owner or operator shall be presumed to be in compliance or non-compliance unless other relevant credible evidence overcomes that presumption.

g. Affirmative Defense Provision for Excess Emissions During Startup and Shutdown

An affirmative defense is provided to owners and operators for civil penalty actions for excess emissions during periods of startup and shutdown. To establish the affirmative defense and to be relieved of a civil penalty in any action to enforce an applicable requirement, the owner or operator of the facility must meet the notification requirements below in a timely manner and prove by a preponderance of the evidence that:

- (i) The periods of excess emissions that occurred during startup and shutdown were short and infrequent and could not have been prevented through careful planning and design;
- (ii) The excess emissions were not part of a recurring pattern indicative of inadequate design, operation or maintenance:
- (iii) If the excess emissions were caused by a bypass (an intentional diversion of control equipment), then the bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (iv) The frequency and duration of operation in startup and shutdown periods were minimized to the maximum extent practicable;
- (v) All possible steps were taken to minimize the impact of excess emissions on ambient air quality;
- (vi) All emissions monitoring systems were kept in operation (if at all possible);
- (vii) The owner or operator's actions during the period of excess emissions were documented by properly signed, contemporaneous operating logs or other relevant evidence; and,
- (viii) At all times, the facility was operated in a manner consistent with good practices for minimizing emissions. This subparagraph is intended solely to be a factor in determining whether an affirmative defense is available to an owner or operator, and shall not constitute an additional applicable requirement.

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The owner or operator of the facility experiencing excess emissions during startup and shutdown shall notify the Division verbally as soon as possible, but no later than two (2) hours after the start of the next working day, and shall submit written quarterly notification following the initial occurrence of the excess emissions. The notification shall address the criteria set forth above.

The Affirmative Defense Provision contained in this section shall not be available to claims for injunctive relief.

The Affirmative Defense Provision does not apply to State Implementation Plan provisions or other requirements that derive from new source performance standards or national emissions standards for hazardous air pollutants, or any other federally enforceable performance standard or emission limit with an averaging time greater than twenty-four hours. In addition, an affirmative defense cannot be used by a single source or small group of sources where the excess emissions have the potential to cause an exceedance of the ambient air quality standards or Prevention of Significant Deterioration (PSD) increments.

In making any determination whether a source established an affirmative defense, the Division shall consider the information within the notification required above and any other information the Division deems necessary, which may include, but is not limited to, physical inspection of the facility and review of documentation pertaining to the maintenance and operation of process and air pollution control equipment.

4. Compliance Requirements

Regulation No. 3, 5 CCR 1001-5, Part C, §III.C.9., V.C.11. & 16.d. and §25-7-122.1(2), C.R.S.

- a. The permittee must comply with all conditions of the Operating Permit. Any permit noncompliance relating to federally-enforceable terms or conditions constitutes a violation of the federal act, as well as the state act and Regulation No. 3. Any permit noncompliance relating to state-only terms or conditions constitutes a violation of the state act and Regulation No. 3, shall be enforceable pursuant to state law, and shall not be enforceable by citizens under § 304 of the federal act. Any such violation of the federal act, the state act or regulations implementing either statute is grounds for enforcement action, for permit termination, revocation and reissuance or modification or for denial of a permit renewal application.
- b. It shall not be a defense for a permittee in an enforcement action or a consideration in favor of a permittee in a permit termination, revocation or modification action or action denying a permit renewal application that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- c. The permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of any request by the permittee for a permit modification, revocation and reissuance, or termination, or any notification of planned changes or anticipated noncompliance does not stay any permit condition, except as provided in §§ X. and XI. of Regulation No. 3, Part C.
- d. The permittee shall furnish to the Air Pollution Control Division, within a reasonable time as specified by the Division, any information that the Division may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Division copies of records required to be kept by the permittee, including information claimed to be confidential. Any information subject to a claim of confidentiality shall be specifically identified and submitted separately from information not subject to the claim.
- e. Any schedule for compliance for applicable requirements with which the source is not in compliance at the time of permit issuance shall be supplemental, and shall not sanction noncompliance with, the applicable requirements on which it is based.

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- f. For any compliance schedule for applicable requirements with which the source is not in compliance at the time of permit issuance, the permittee shall submit, at least every 6 months unless a more frequent period is specified in the applicable requirement or by the Air Pollution Control Division, progress reports which contain the following:
 - (i) dates for achieving the activities, milestones, or compliance required in the schedule for compliance, and dates when such activities, milestones, or compliance were achieved; and
 - (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- g. The permittee shall not knowingly falsify, tamper with, or render inaccurate any monitoring device or method required to be maintained or followed under the terms and conditions of the Operating Permit.

5. Emergency Provisions

Regulation No. 3, 5 CCR 1001-5, Part C, §VII

An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed the technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. "Emergency" does not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error. An emergency constitutes an affirmative defense to an enforcement action brought for noncompliance with a technology-based emission limitation if the permittee demonstrates, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- a. an emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. the permitted facility was at the time being properly operated;
- c. during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- d. the permittee submitted oral notice of the emergency to the Air Pollution Control Division no later than noon of the next working day following the emergency, and followed by written notice within one month of the time when emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

This emergency provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

6. Emission Standards for Asbestos

Regulation No. 8, 5 CCR 1001-10, Part B

The permittee shall not conduct any asbestos abatement activities except in accordance with the provisions of Regulation No. 8, Part B, "emission standards for asbestos."

7. Emissions Trading, Marketable Permits, Economic Incentives

Regulation No. 3, 5 CCR 1001-5, Part C, §V.C.13.

No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are specifically provided for in the permit.

8. Fee Payment

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C.R.S. §§ 25-7-114.1(6) and 25-7-114.7

- a. The permittee shall pay an annual emissions fee in accordance with the provisions of C.R.S. § 25-7-114.7. A 1% per month late payment fee shall be assessed against any invoice amounts not paid in full on the 91st day after the date of invoice, unless a permittee has filed a timely protest to the invoice amount.
- b. The permittee shall pay a permit processing fee in accordance with the provisions of C.R.S. § 25-7-114.7. If the Division estimates that processing of the permit will take more than 30 hours, it will notify the permittee of its estimate of what the actual charges may be prior to commencing any work exceeding the 30 hour limit.
- c. The permittee shall pay an APEN fee in accordance with the provisions of C.R.S. § 25-7-114.1(6) for each APEN or revised APEN filed.

9. Fugitive Particulate Emissions

Regulation No. 1, 5 CCR 1001-3, §III.D.1.

The permittee shall employ such control measures and operating procedures as are necessary to minimize fugitive particulate emissions into the atmosphere, in accordance with the provisions of Regulation No. 1, §III.D.1.

10. Inspection and Entry

Regulation No. 3, 5 CCR 1001-5, Part C, §V.C.16.b.

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Air Pollution Control Division, or any authorized representative, to perform the following:

- a. enter upon the permittee's premises where an Operating Permit source is located, or emissions-related activity is conducted, or where records must be kept under the terms of the permit;
- b. have access to, and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the Operating Permit;
- d. sample or monitor at reasonable times, for the purposes of assuring compliance with the Operating Permit or applicable requirements, any substances or parameters.

11. Minor Permit Modifications

Regulation No. 3, 5 CCR 1001-5, Part C, §§X. & XI.

The permittee shall submit an application for a minor permit modification before making the change requested in the application. The permit shield shall not extend to minor permit modifications.

12. New Source Review

Regulation No. 3, 5 CCR 1001-5, Part B

The permittee shall not commence construction or modification of a source required to be reviewed under the New Source Review provisions of Regulation No. 3, Part B, without first receiving a construction permit.

13. No Property Rights Conveyed

Regulation No. 3, 5 CCR 1001-5, Part C, §V.C.11.d.

This permit does not convey any property rights of any sort, or any exclusive privilege.

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14. Odor

Regulation No. 2, 5 CCR 1001-4, Part A

As a matter of state law only, the permittee shall comply with the provisions of Regulation No. 2 concerning odorous emissions.

15. Off-Permit Changes to the Source

Regulation No. 3, 5 CCR 1001-5, Part C, §XII.B.

The permittee shall record any off-permit change to the source that causes the emissions of a regulated pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from the change, including any other data necessary to show compliance with applicable ambient air quality standards. The permittee shall provide contemporaneous notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit . The permit shield shall not apply to any off-permit change.

16. Opacity

Regulation No. 1, 5 CCR 1001-3, §§I., II.

The permittee shall comply with the opacity emissions limitation set forth in Regulation No. 1, "I.-II.

17. Open Burning

Regulation No. 9, 5 CCR 1001-11

The permittee shall obtain a permit from the Division for any regulated open burning activities in accordance with provisions of Regulation No. 9.

18. Ozone Depleting Compounds

Regulation No. 15, 5 CCR 1001-17

The permittee shall comply with the provisions of Regulation No. 15 concerning emissions of ozone depleting compounds. Section I., II.C., II.D., III., IV., and V. of Regulation No. 15 shall be enforced as a matter of state law only.

19. Permit Expiration and Renewal

Regulation No. 3, 5 CCR 1001-5, Part C, §§III.B.6., IV.C., V.C.2.

- a. The permit term shall be five (5) years. The permit shall expire at the end of its term. Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted.
- b. Applications for renewal shall be submitted at least twelve months, but not more than 18 months, prior to the expiration of the Operating Permit. An application for permit renewal may address only those portions of the permit that require revision, supplementing, or deletion, incorporating the remaining permit terms by reference from the previous permit. A copy of any materials incorporated by reference must be included with the application.

20. Portable Sources

Regulation No. 3, 5 CCR 1001-5, Part C, §II.D.

Portable Source permittees shall notify the Air Pollution Control Division at least 10 days in advance of each change in location.

21. Prompt Deviation Reporting

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Regulation No. 3, 5 CCR 1001-5, Part C, §V.C.7.b.

The permittee shall promptly report any deviation from permit requirements, including those attributable to malfunction conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.

"Prompt" is defined as follows:

- a. Any definition of "prompt" or a specific timeframe for reporting deviations provided in an underlying applicable requirement as identified in this permit; or
- b. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations will be submitted based on the following schedule:
 - (i) For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in the applicable regulation) that continue for more than an hour in excess of permit requirements, the report shall be made within 24 hours of the occurrence;
 - (ii) For emissions of any regulated air pollutant, excluding a hazardous air pollutant or a toxic air pollutant that continue for more than two hours in excess of permit requirements, the report shall be made within 48 hours; and
 - (iii) For all other deviations from permit requirements, the report shall be submitted every six (6) months, except as otherwise specified by the Division in the permit in accordance with paragraph 22.d. below.
- c. If any of the conditions in paragraphs b.i or b.ii above are met, the source shall notify the Division by telephone (303-692-3155) or facsimile (303-782-0278) based on the timetables listed above. [Explanatory note: Notification by telephone or facsimile must specify that this notification is a deviation report for an Operating Permit.] A written notice, certified consistent with General Condition 2.a. above (Certification Requirements), shall be submitted within 10 working days of the occurrence. All deviations reported under this section shall also be identified in the 6-month report required above.

"Prompt reporting" does not constitute an exception to the requirements of "Emergency Provisions" for the purpose of avoiding enforcement actions.

22. Record Keeping and Reporting Requirements

Regulation No. 3, 5 CCR 1001-5, Part A, §II.; Part C, §§V.C.6., V.C.7.

- a. Unless otherwise provided in the source specific conditions of this Operating Permit, the permittee shall maintain compliance monitoring records that include the following information:
 - (i) date, place as defined in the Operating Permit, and time of sampling or measurements;
 - (ii) date(s) on which analyses were performed;
 - (iii) the company or entity that performed the analysis;
 - (iv) the analytical techniques or methods used;
 - (v) the results of such analysis; and
 - (vi) the operating conditions at the time of sampling or measurement.

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- b. The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of the monitoring sample, measurement, report or application. Support information, for this purpose, includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Operating Permit. With prior approval of the Air Pollution Control Division, the permittee may maintain any of the above records in a computerized form.
- c. Permittees must retain records of all required monitoring data and support information for the most recent twelve (12) month period, as well as compliance certifications for the past five (5) years on-site at all times. A permittee shall make available for the Air Pollution Control Division's review all other records of required monitoring data and support information required to be retained by the permittee upon 48 hours advance notice by the Division.
- d. The permittee shall submit to the Air Pollution Control Division all reports of any required monitoring at least every six (6) months, unless an applicable requirement, the compliance assurance monitoring rule, or the Division requires submission on a more frequent basis. All instances of deviations from any permit requirements must be clearly identified in such reports.
- e. The permittee shall file an Air Pollutant Emissions Notice ("APEN") prior to constructing, modifying, or altering any facility, process, activity which constitutes a stationary source from which air pollutants are or are to be emitted, unless such source is exempt from the APEN filing requirements of Regulation No. 3, Part A, 'II.D. A revised APEN shall be filed annually whenever a significant change in emissions, as defined in Regulation No. 3, Part A, 'II.C.2., occurs; whenever there is a change in owner or operator of any facility, process, or activity; whenever new control equipment is installed; whenever a different type of control equipment replaces an existing type of control equipment; whenever a permit limitation must be modified; or before the APEN expires. An APEN is valid for a period of five years. The five-year period recommences when a revised APEN is received by the Air Pollution Control Division. Revised APENs shall be submitted no later than 30 days before the five-year term expires. Permittees submitting revised APENs to inform the Division of a change in actual emission rates must do so by April 30 of the following year. Where a permit revision is required, the revised APEN must be filed along with a request for permit revision. APENs for changes in control equipment must be submitted before the change occurs. Annual fees are based on the most recent APEN on file with the Division.

23. Reopenings for Cause

Regulation No. 3, 5 CCR 1001-5, Part C, §XIII.

- a. The Air Pollution Control Division shall reopen, revise, and reissue Operating Permits; permit reopenings and reissuance shall be processed using the procedures set forth in Regulation No. 3, Part C, § III., except that proceedings to reopen and reissue permits affect only those parts of the permit for which cause to reopen exists.
- b. The Division shall reopen a permit whenever additional applicable requirements become applicable to a major source with a remaining permit term of three or more years, unless the effective date of the requirements is later than the date on which the permit expires, or unless a general permit is obtained to address the new requirements; whenever additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program; whenever the Division determines the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or whenever the Division determines that the permit must be revised or revoked to assure compliance with an applicable requirement.
- c. The Division shall provide 30 days' advance notice to the permittee of its intent to reopen the permit, except that a shorter notice may be provided in the case of an emergency.
- d. The permit shield shall extend to those parts of the permit that have been changed pursuant to the reopening and reissuance procedure.

24. Section 502(b)(10) Changes

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Regulation No. 3, 5 CCR 1001-5, Part C, §XII.A.

The permittee shall provide a minimum 7-day advance notification to the Air Pollution Control Division and to the Environmental Protection Agency at the addresses listed in Appendix D of this Permit. The permittee shall attach a copy of each such notice given to its Operating Permit.

25. Severability Clause

Regulation No. 3, 5 CCR 1001-5, Part C, §V.C.10.

In the event of a challenge to any portion of the permit, all emissions limits, specific and general conditions, monitoring, record keeping and reporting requirements of the permit, except those being challenged, remain valid and enforceable.

26. Significant Permit Modifications

Regulation No. 3, 5 CCR 1001-5, Part C, § III.B.2.

The permittee shall not make a significant modification required to be reviewed under Regulation No. 3, Part B ("Construction Permit" requirements) without first receiving a construction permit. The permittee shall submit a complete Operating Permit application or application for an Operating Permit revision for any new or modified source within twelve months of commencing operation, to the address listed in Item 1 in Appendix D of this permit. If the permittee chooses to use the "Combined Construction/Operating Permit" application procedures of Regulation No. 3, Part C, then the Operating Permit must be received prior to commencing construction of the new or modified source.

27. Special Provisions Concerning the Acid Rain Program

Regulation No. 3, 5 CCR 1001-5, Part C, §§V.C.1.b. & 8

- a. Where an applicable requirement of the federal act is more stringent than an applicable requirement of regulations promulgated under Title IV of the federal act, 40 Code of Federal Regulations (CFR) Part 72, both provisions shall be incorporated into the permit and shall be federally enforceable.
- b. Emissions exceeding any allowances that the source lawfully holds under Title IV of the federal act or the regulations promulgated thereunder, 40 CFR Part 72, are expressly prohibited.

28. Transfer or Assignment of Ownership

Regulation No. 3, 5 CCR 1001-5, Part C, §II.C.

No transfer or assignment of ownership of the Operating Permit source will be effective unless the prospective owner or operator applies to the Air Pollution Control Division on Division-supplied Administrative Permit Amendment forms, for reissuance of the existing Operating Permit. No administrative permit shall be complete until a written agreement containing a specific date for transfer of permit, responsibility, coverage, and liability between the permittee and the prospective owner or operator has been submitted to the Division.

29. Volatile Organic Compounds

Regulation No. 7, 5 CCR 1001-9, §§III & V.

a. For sources located in an ozone non-attainment area or the Denver Metro Attainment Maintenance Area, all storage tank gauging devices, anti-rotation devices, accesses, seals, hatches, roof drainage systems, support structures, and pressure relief valves shall be maintained and operated to prevent detectable vapor loss except when opened, actuated, or used for necessary and proper activities (e.g. maintenance). Such opening, actuation, or use shall be limited so as to minimize vapor loss.

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Detectable vapor loss shall be determined visually, by touch, by presence of odor, or using a portable hydrocarbon analyzer. When an analyzer is used, detectable vapor loss means a VOC concentration exceeding 10,000 ppm. Testing shall be conducted as in Regulation No. 7, Section VIII.C.3.

Except when otherwise provided by Regulation No. 7, all volatile organic compounds, excluding petroleum liquids, transferred to any tank, container, or vehicle compartment with a capacity exceeding 212 liters (56 gallons), shall be transferred using submerged or bottom filling equipment. For top loading, the fill tube shall reach within six inches of the bottom of the tank compartment. For bottom-fill operations, the inlet shall be flush with the tank bottom.

- b. The permittee shall not dispose of volatile organic compounds by evaporation or spillage unless Reasonably Available Control Technology (RACT) is utilized.
- c. No owner or operator of a bulk gasoline terminal, bulk gasoline plant, or gasoline dispensing facility as defined in Colorado Regulation No. 7, Section VI, shall permit gasoline to be intentionally spilled, discarded in sewers, stored in open containers, or disposed of in any other manner that would result in evaporation.

30. Wood Stoves and Wood burning Appliances

Regulation No. 4, 5 CCR 1001-6

The permittee shall comply with the provisions of Regulation No. 4 concerning the advertisement, sale, installation, and use of wood stoves and wood burning appliances.

END OF PERMIT REQUIREMENTS

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OPERATING PERMIT APPENDICES

- A INSPECTION INFORMATION
- **B-MONITORING AND PERMIT DEVIATION REPORT**
- C COMPLIANCE CERTIFICATION REPORT FORMAT
- **D-NOTIFICATION ADDRESSES**
- **E-PERMIT ACRONYMS**
- F PERMIT MODIFICATIONS
- G FUEL ALLOCATION PROCEDURE
- H APPLICABILITY REPORTS

*DISCLAIMER:

None of the information found in these Appendices shall be considered to be State or Federally enforceable, except as otherwise provided in the permit, and is presented to assist the source, permitting authority, inspectors, and citizens.

APPENDIX A Inspection Information

Directions to Plant:

Directions from Trinidad: Travel west on Highway 12 approximately 9.5 miles. Turn north on Burro Canyon Road approximately 2.5 miles. The facility is located on the east side of the road.

Safety Equipment Required:

Hard Hat, Safety Shoes, and Hearing Protection

Facility Plot Plan:

Figure B.1 (following page) shows the plot plan as submitted on February 27, 2004 with the source's Title V Operating Permit Application.

List of Insignificant Activities:

The following list of insignificant activities was provided by the source to assist in the understanding of the facility layout. Since there is no requirement to update such a list, activities may have changed since the last filing.

Insignificant activities and/or sources of emissions as submitted in the application are as follows:

Two (2) dehydrator water tanks, 250 gallons each

Three (3) Diesel fuel tanks, 500, 100 and 1,000 gallons

Gasoline tank, 1,000 gallons

ISO 150, 210 bbl

SAE 40 lube oil, 210 bbl

1540 engine oil, 1,000 gallons

One (1) used lubricating oil tank, 210 barrels aboveground

One (1) used lubricating oil tank, 750 gallons underground

Two (2) used oil tanks above ground, 500 bbl each

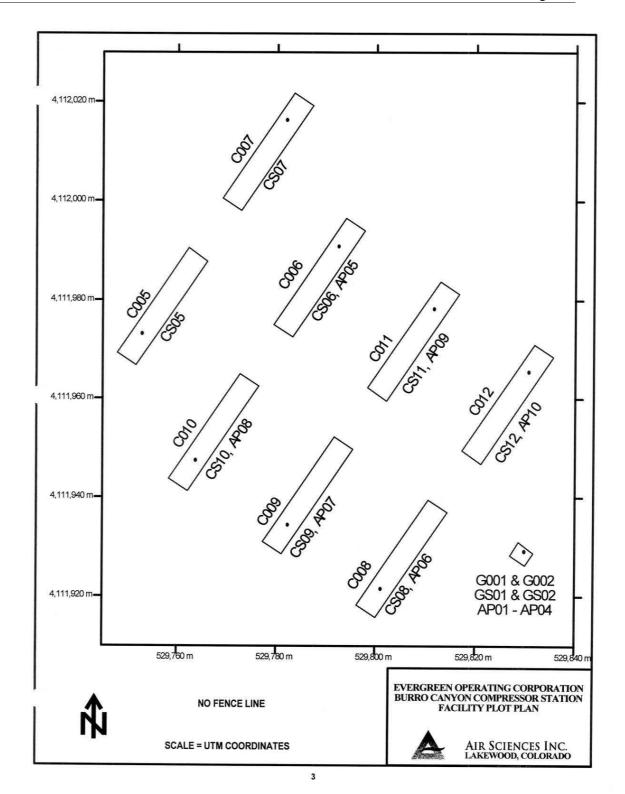
Two (2) reboilers for dehydration units

Caterpillar 3306NA (<260 HP) SN 07Y02044 (No control device) powering emergency generator

Caterpillar 3306NA (<260 HP) SN 07Y02983 (No control device) powering emergency generator

Fugitive Emissions from Components

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APPENDIX B Monitoring and Permit Deviation Report

with codes ver 2/20/07

Reporting Requirements and Definitions

Please note that, pursuant to 113(c)(2) of the federal Clean Air Act, any person who knowingly:

- (A) makes any false material statement, representation, or certification in, or omits material information from, or knowingly alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required pursuant to the Act to be either filed or maintained (whether with respect to the requirements imposed by the Administrator or by a State);
- (B) fails to notify or report as required under the Act; or
- (C) falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required to be maintained or followed under the Act shall, upon conviction, be punished by a fine pursuant to title 18 of the United States Code, or by imprisonment for not more than 2 years, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

The permittee must comply with all conditions of this operating permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

The Part 70 Operating Permit program requires three types of reports to be filed for all permits. All required reports must be certified by a responsible official.

Report #1: Monitoring Deviation Report (due at least every six months)

For purposes of this operating permit, the Division is requiring that the monitoring reports are due every six months unless otherwise noted in the permit. All instances of deviations from permit monitoring requirements must be clearly identified in such reports.

For purposes of this operating permit, monitoring means any condition determined by observation, by data from any monitoring protocol, or by any other monitoring which is required by the permit as well as the recordkeeping associated with that monitoring. This would include, for example, fuel use or process rate monitoring, fuel analyses, and operational or control device parameter monitoring.

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Report #2: Permit Deviation Report (must be reported "promptly")

In addition to the monitoring requirements set forth in the permits as discussed above, each and every requirement of the permit is subject to deviation reporting. The reports must address deviations from permit requirements, including those attributable to malfunctions as defined in this Appendix, the probable cause of such deviations, and any corrective actions or preventive measures taken. All deviations from any term or condition of the permit are required to be summarized or referenced in the annual compliance certification.

For purposes of this operating permit, "malfunction" shall refer to both emergency conditions and malfunctions. Additional discussion on these conditions is provided later in this Appendix.

For purposes of this operating permit, the Division is requiring that the permit deviation reports are due as set forth in General Condition 21. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. For example, quarterly Excess Emission Reports required by an NSPS or Regulation No. 1, Section IV.

In addition to the monitoring deviations discussed above, included in the meaning of deviation for the purposes of this operating permit are any of the following:

- (1) A situation where emissions exceed an emission limitation or standard contained in the permit;
- (2) A situation where process or control device parameter values demonstrate that an emission limitation or standard contained in the permit has not been met;
- (3) A situation in which observations or data collected demonstrates noncompliance with an emission limitation or standard or any work practice or operating condition required by the permit; or,
- (4) A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only if the emission point is subject to CAM)

For reporting purposes, the Division has combined the Monitoring Deviation Report with the Permit Deviation Report. All deviations shall be reported using the following codes:

1 = **Standard:** When the requirement is an emission limit or standard **2 = Process:** When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed
 6 = Record: When the requirement is recordkeeping
 7 = Report: When the requirement is reporting

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8 = CAM: A situation in which an excursion or exceedance as defined in 40CFR Part

64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred.

9 = Other: When the deviation is not covered by any of the above categories

Report #3: Compliance Certification (annually, as defined in the permit)

Submission of compliance certifications with terms and conditions in the permit, including emission limitations, standards, or work practices, is required not less than annually.

Compliance Certifications are intended to state the compliance status of each requirement of the permit over the certification period. They must be based, at a minimum, on the testing and monitoring methods specified in the permit that were conducted during the relevant time period. In addition, if the owner or operator knows of other material information (i.e. information beyond required monitoring that has been specifically assessed in relation to how the information potentially affects compliance status), that information must be identified and addressed in the compliance certification. The compliance certification must include the following:

- The identification of each term or condition of the permit that is the basis of the certification;
- Whether or not the method(s) used by the owner or operator for determining the compliance status with each permit term and condition during the certification period was the method(s) specified in the permit. Such methods and other means shall include, at a minimum, the methods and means required in the permit. If necessary, the owner or operator also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Federal Clean Air Act, which prohibits knowingly making a false certification or omitting material information;
- The status of compliance with the terms and conditions of the permit, and whether compliance was continuous or intermittent. The certification shall identify each deviation and take it into account in the compliance certification. Note that not all deviations are considered violations.¹
- Such other facts as the Division may require, consistent with the applicable requirements to which the source is subject, to determine the compliance status of the source.

The Certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR

For example, given the various emissions limitations and monitoring requirements to which a source may be subject, a deviation from one requirement may not be a deviation under another requirement which recognizes an exception and/or special circumstances relating to that same event.

Air Pollution Control Division Colorado Operating Permit Compliance Monitoring Report

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Part 64 (the Compliance Assurance Monitoring (CAM) Rule) has occurred. (only for emission points subject to CAM)

Note the requirement that the certification shall identify each deviation and take it into account in the compliance certification. Previously submitted deviation reports, including the deviation report submitted at the time of the annual certification, may be referenced in the compliance certification.

Startup, Shutdown, Malfunctions and Emergencies

Understanding the application of Startup, Shutdown, Malfunctions and Emergency Provisions, is very important in both the deviation reports and the annual compliance certifications.

Startup, Shutdown, and Malfunctions

Please note that exceedances of some New Source Performance Standards (NSPS) and Maximum Achievable Control Technology (MACT) standards that occur during Startup, Shutdown or Malfunctions may not be considered to be non-compliance since emission limits or standards often do not apply unless specifically stated in the NSPS. Such exceedances must, however, be reported as excess emissions per the NSPS/MACT rules and would still be noted in the deviation report. In regard to compliance certifications, the permittee should be confident of the information related to those deviations when making compliance determinations since they are subject to Division review. The concepts of Startup, Shutdown and Malfunctions also exist for Best Available Control Technology (BACT) sources, but are not applied in the same fashion as for NSPS and MACT sources.

Emergency Provisions

Under the Emergency provisions of Part 70 certain operational conditions may act as an affirmative defense against enforcement action if they are properly reported.

DEFINITIONS

Malfunction (NSPS) means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Malfunction (SIP) means any sudden and unavoidable failure of air pollution control equipment or process equipment or unintended failure of a process to operate in a normal or usual manner. Failures that are primarily caused by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions.

Emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000

Monitoring and Permit Deviation Report - Part I

- 1. Following is the required format for the Monitoring and Permit Deviation report to be submitted to the Division on a semi-annual basis unless otherwise noted in the permit. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.
- 2. Part II of this Appendix B shows the format and information the Division will require for describing periods of monitoring and permit deviations, or upset or emergency conditions as indicated in the Table below. One Part II Form must be completed for each Deviation. Previously submitted reports (e.g. EER's or Upsets) may be referenced and the form need not be filled out in its entirety.

FACILITY NAME:	Pioneer Natural Resources, USA – Burro Canyon Compressor Station
OPERATING PERMIT NO:	99OPLA208
REPORTING PERIOD:	(see first page of the permit for specific reporting period and dates)

Operating Permit Unit			ons noted Period? ¹	Deviation Code ²	Conditio	on/Emergency on Reported g Period?
ID	Unit Description	YES	NO		YES	NO
CS05	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP, Two stacks.SN: 1YG00100					
CS06	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controller, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP, Two stacks.SN: 1YG00109.					
CS08	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controller, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP,Two stacks. SN: 1YG00123R					
CS09	Caterpillar 3608, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,370 HP.SN: BEN00251					
CS10	Caterpillar 3608, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,370 HP.SN: BEN00349					
CS11	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 3300 HP, Two stacks. SN: 1YG00155					

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000

Operating Permit Unit		Deviations noted During Period? ¹		Deviation		Deviation Code ²	Malfunction/Emergency Condition Reported During Period?	
ID	Unit Description	YES	NO		YES	NO		
D01	Pesco Triethylene Glycol Dehydrator, Design Rated at 50 MMscfd							
D02	Pesco Triethylene Glycol Dehydrator, Design Rated at 50 MMscfd							
BCS1	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HPSN 4EK02878							
BCS2	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HPSN 4EK02903							
BCS3	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HPSN 4EK02906							
General Conditions								
Insignificant Activities								

¹ See previous discussion regarding what is considered to be a deviation. Determination of whether or not a deviation has occurred shall be based on a reasonable inquiry using readily available information.

1 = Standard: When the requirement is an emission limit or standard 2 = Process: When the requirement is a production/process limit

3 = Monitor: When the requirement is monitoring 4 = Test: When the requirement is testing

5 = Maintenance: When required maintenance is not performed
 6 = Record: When the requirement is record keeping
 7 = Report: When the requirement is reporting

8 = CAM: A situation in which an excursion or exceedance as defined in 40CFR Part 64 (the Compliance

Assurance Monitoring (CAM) Rule) has occurred.

9 = Other: When the deviation is not covered by any of the above categories

²Use the following entries, as appropriate

Monitoring and Permit Deviation Report - Part II

FACILITY NAME: OPERATING PERMIT NO: REPORTING PERIOD:			ces, USA - Burro Ca	inyon Compress	or Station
Is the deviation being claimed	d as an:	Emergency	Malfui	nction	N/A
(For NSPS/MACT) Did the d	leviation	occur during:	Startup Malfunction		lown ration
OPERATING PERMIT UNI	T IDENT	ΓΙFICATION:			
Operating Permit Condition N	Number (<u>Citation</u>			
Explanation of Period of Dev	<u>iation</u>				
Duration (start/stop date & tin	me)				
Action Taken to Correct the I	Problem				
Measures Taken to Prevent a	Reoccur	rence of the P	<u>roblem</u>		
Dates of Malfunctions/Emerg	gencies R	Reported (if ap	plicable)		
Deviation Code:			Division (Code QA:	

SEE EXAMPLE ON THE NEXT PAGE

EXAMPLE

FACILITY NAME: OPERATING PERMIT NO: REPORTING PERIOD:	96OPZZXX	XX			
Is the deviation being claimed	l as an:	Emergency	Malfunction _	XX	N/A
(For NSPS/MACT) Did the d	eviation occ	cur during: Startup Malfunction	 1 Norma	Shutdown al Operation	
OPERATING PERMIT UNIT	ΓIDENTIF	ICATION:			
Asphalt Plant with a Scrubber	for Particu	late Control - Unit 2	XXX		
Operating Permit Condition N Section II, Condition 3.1 - Op					
Explanation of Period of Dev Slurry Line Feed Plugged	iation				
<u>Duration</u> START- 1730 4/10/96 END- 1800 4/10/96					
Action Taken to Correct the E Line Blown Out	Problem .				
Measures Taken to Prevent R Replaced Line Filter	eoccurrence	e of the Problem			
Dates of Malfunctions/Emerg 5/30/06 to R. Flagg, APCD	encies Repo	orted (if applicable)			
Deviation Code:	Div	ision Code QA:			

Monitoring and Permit Deviation Report - Part III

REPORT CERTIFICATION

SOURCE NAME:	Pioneer Natural Resources U	SA - Burro Canyon Compressor Station
FACILITY IDENTIFICA	TION NUMBER: 0710037	
PERMIT NUMBER:	99OPLA20	8
REPORTING PERIOD	(see first page of	f the permit for specific reporting period and dates)
responsible official. The the Division in accordance	responsible official signing the	ation Reports must be certified by a is certification must be pre-approved by o. 3, Part A, Section I.B.54. This signed nents being submitted.
STATEMENT OF COM	IPLETENESS	
and belief formed after	C	its entirety and, based on information that the statements and information mplete.
Sub-Section 18-1-501(6) certification in this do	, C.R.S., makes any false n	y person who knowingly, as defined in naterial statement, representation, or demeanor and may be punished in 22.1, C.R.S.
Printed	or Typed Name	Title
Signature of	of Responsible Official	Date Signed
Note: Deviation reports shall No copies need be sent to the		e address given in Appendix D of this permit.
Operating Permit Number	:: 99OPLA208	First Issued: July 1, 2000

APPENDIX C Format for Annual Compliance Certification Reports (ver 2/20/07)

Following is the format for the Compliance Certification report to be submitted to the Division and the U.S. EPA annually based on the effective date of the permit. The Table below must be completed for all equipment or processes for which specific Operating Permit terms exist.

FACILITY NAME:	Pioneer Natural Resources, USA – Burro Canyon Compressor Station
OPERATING PERMIT NO:	99OPLA208
REPORTING PERIOD:	
I. Facility Status	
conditions contained in the P	ting period, this source was in compliance with ALL terms and Permit, each term and condition of which is identified and included od(s) used to determine compliance is/are the method(s) specified in
compliance with all terms are which is identified and inclumethod used to determine contact.	ion of the deviations identified in the table below, this source was in and conditions contained in the Permit, each term and condition of uded by this reference, during the entire reporting period. The impliance for each term and condition is the method specified in the dicated and described in the deviation report(s). Note that not all lations.

Operating Permit Unit ID	Unit Description	Unit Description Deviations Reported ¹		Monitoring Method per Permit? ²		Was compliance continuous or intermittent? ³	
ID		Previous	Current	Yes	No	Continuous	Intermittent
CS05	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP, Two stacks.SN: 1YG00100						
CS06	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controller, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP, Two stacks.SN: 1YG00109.						

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000 Renewed: October 1, 2009

Operating Permit Unit	Unit Description	Deviations Reported ¹		Penerted 1 Metho					ance continuous ermittent? ³	
ID		Previous	Current	Yes	No	Continuous	Intermittent			
CS08	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controller, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,961 HP,Two stacks. SN: 1YG00123R									
CS09	Caterpillar 3608, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,370 HP.SN: BEN00251									
CS10	Caterpillar 3608, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 2,370 HP.SN: BEN00349									
CS11	Caterpillar 3612, 4-Cycle Lean Burn, Low NOx Design, Spark-ignition, Air to Fuel Ratio Controller, Turbocharged, Natural Gas Fired Internal Combustion Engine, Site Rated at 3300 HP, Two stacks. SN: 1YG00155									
D01	Pesco Triethylene Glycol Dehydrator, Design Rated at 50 MMscfd									
D02	Pesco Triethylene Glycol Dehydrator, Design Rated at 50 MMscfd									
BCS1	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HPSN 4EK02878									
BCS2	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HPSN 4EK02903									

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000

Operating Permit Unit ID	Unit Description	Deviations Reported ¹		Monitoring Method per Permit? ²		Was compliance continuous or intermittent? ³	
ID		Previous	Current	Yes	No	Continuous	Intermittent
BCS3	Caterpillar 3516, 4-Cycle Lean Burn, Low NOx design, Spark-ignition, Turbocharged, Air to Fuel Ratio Controlled, Natural Gas Fired Internal Combustion Engine, site rated at 1135 HPSN 4EK02906						
General Conditions							
Insignificant Activities ⁴							

¹ If deviations were noted in the previous deviation report (i.e., for the first six months of the annual reporting period), put an "X" under "previous". If deviations were noted in the current deviation report (i.e., for the last six months of the annual reporting period), put an "X" under "current". Mark both columns if both apply.

NOTE:

The Periodic Monitoring requirements of the Operating Permit program rule are intended to provide assurance that even in the absence of a continuous system of monitoring the Title V source can demonstrate whether it has operated in continuous compliance for the duration of the reporting period. Therefore, if a source 1) conducts all of the monitoring and recordkeeping required in its permit, even if such activities are done periodically and not continuously, and if 2) such monitoring and recordkeeping does not indicate non-compliance, and if 3) the Responsible Official is not aware of any credible evidence that indicates non-compliance, then the Responsible Official can certify that the emission point(s) in question were in continuous compliance during the applicable time period.

Comp	mance st	atus for these sources shall be based on a reasonable inquiry using readily available information.
II.	Status	s for Accidental Release Prevention Program:
	A.	This facility is subject is not subject to the provisions of the Accidental Release Prevention Program (Section 112(r) of the Federal Clean Air Act)
	В.	If subject: The facility is is not in compliance with all the requirements of section 112(r).

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000 Renewed: October 1, 2009

² Note whether the method(s) used to determine the compliance status with each term and condition was the method(s) specified in the permit. If it was not, mark "no" and attach additional information/explanation.

³ Note whether the compliance status with of each term and condition provided was continuous or intermittent. "Intermittent Compliance" can mean either that noncompliance has occurred or that the owner or operator has data sufficient to certify compliance only on an intermittent basis. Certification of intermittent compliance therefore does not necessarily mean that any noncompliance has occurred.

Air Pollution Control Division
Colorado Operating Permit
Compliance Certification

Appendix C Page 59

0 0 1 1 1				1 6
	1.	A Risk Management Plan to the appropriate authority arrequired date.		
III.	Certification			
form	ed after reason	is certification in its entirety able inquiry, I certify that the true, accurate and complete.	•	
Secti certif	on 18-1-501(6) fication in thi	Colorado Statutes state that c, C.R.S., makes any false s document is guilty of a re provisions of Section 25-7 12	material stateme misdemeanor and	ent, representation, or
	Printe	d or Typed Name	Tit	le
	S	ignature	Date	Signed
NOTE	: All compliance ce	rtifications shall be submitted to the Ai	r Pollution Control Div	ision and to the Environmental

NOTE: All compliance certifications shall be submitted to the Air Pollution Control Division and to the Environmenta Protection Agency at the addresses listed in Appendix D of this Permit.

APPENDIX D Notification Addresses

1. **Air Pollution Control Division**

Colorado Department of Public Health and Environment Air Pollution Control Division Operating Permits Unit APCD-SS-B1 4300 Cherry Creek Drive S. Denver, CO 80246-1530

ATTN: Matt Burgett

2. United States Environmental Protection Agency

Compliance Notifications:

Office of Enforcement, Compliance and Environmental Justice Mail Code 8ENF U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

Permit Modifications, Off Permit Changes:

Office of Partnerships and Regulatory Assistance Mail Stop 8P-AR U.S. Environmental Protection Agency, Region VIII 1595 Wynkoop Street Denver, CO 80202-1129

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000 Renewed: October 1, 2009

APPENDIX E Permit Acronyms

Listed Alphabetically:

AIRS - Aerometric Information Retrieval System

AP-42 - EPA Document Compiling Air Pollutant Emission Factors

APEN - Air Pollution Emission Notice (State of Colorado)

APCD - Air Pollution Control Division (State of Colorado)

ASTM - Aerometric Information Retrieval System

EPA Document Compiling Air Pollutant Emission Factors

Air Pollution Emission Notice (State of Colorado)

Are Pollution Control Division (State of Colorado)

ASTM - Aerometric Information Retrieval System

BACT - Best Available Control Technology

BTU - British Thermal Unit

CAA - Clean Air Act (CAAA = Clean Air Act Amendments)

CCR - Colorado Code of Regulations CEM - Continuous Emissions Monitor

CF - Cubic Feet (SCF = Standard Cubic Feet)

CFR - Code of Federal Regulations

CO - Carbon Monoxide

COM - Continuous Opacity Monitor CRS - Colorado Revised Statute

EF - Emission Factor

EPA - Environmental Protection Agency FI - Fuel Input Rate in Lbs/mmBtu

FR - Federal Register

G - Grams Gal - Gallon

GPM - Gallons per Minute HAPs - Hazardous Air Pollutants

HP - Horsepower

HP-HR - Horsepower Hour (G/HP-HR = Grams per Horsepower Hour)

LAER - Lowest Achievable Emission Rate

LBS - Pounds M - Thousand MM - Million

MMscf - Million Standard Cubic Feet

MMscfd - Million Standard Cubic Feet per Day

N/A or NA - Not Applicable NOx - Nitrogen Oxides

NESHAP - National Emission Standards for Hazardous Air Pollutants

NSPS - New Source Performance Standards P - Process Weight Rate in Tons/Hr

PE - Particulate Emissions PM - Particulate Matter

PM₁₀ - Particulate Matter Under 10 Microns

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000 Renewed: October 1, 2009

PSD -	Prevention of Significant Deterioration
PTE -	Potential To Emit
RACT -	Reasonably Available Control Technology
SCC -	Source Classification Code
SCF -	Standard Cubic Feet
SIC -	Standard Industrial Classification
SO ₂ -	Sulfur Dioxide
TPY -	Tons Per Year

TSP - Total Suspended Particulate VOC - Volatile Organic Compounds

APPENDIX F Permit Modifications

DATE OF REVISION	TYPE OF REVISION	SECTION NUMBER, CONDITION NUMBER	DESCRIPTION OF REVISION
	Minor Modification	Page following the cover page	Update Responsible Official and Permit Contact
		Section II, Condition 1.4	Removal of Monthly Engine O ₂ Exhaust Content Monitoring
February 14, 2013		Throughout (as applicable)	Entered permit revision date on cover page and page footers
		Throughout (as applicable)	Updated internet URL for Division's Portable Analyzer Monitoring Protocol.
		Appendix D	Updated Division's address with ATTN Matt Burgett

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000

APPENDIX G Fuel Allocation Procedure

*The methods outlined will be used to calculate fuel use for Units CS05-CS11 and BCS1-BCS3

A) FUEL ALLOCATION TO INDIVIDUAL UNITS

For Each Piece of Equipment, Fuel Use =

[Fuel Design Rate] X [Hrs. of Operation] X [Facility Fuel Use for Month] [Sum of Numerator for Each Engine]

Unit Number	Fuel Design Rate
CS05	22.5 MMBtu/hr
CS06	22.5 MMBtu/hr
CS08	22.5 MMBtu/hr
CS09	18.0 MMBtu/hr
CS10	18.0 MMBtu/hr
CS11	25.1 MMBtu/hr
BCS1	9.3 MMBtu/hr
BCS2	9.3 MMBtu/hr
BCS3	9.3 MMBtu/hr

^{*}Allocated Fuel Use shall be determined within the first seven days of each month based on the monthly hours of operation for each listed piece of equipment from the previous month.

APPENDIX H Applicability Reports (ver 12/10/2008)

Note: A MS Word version of this Appendix can be found at:

http://www.cdphe.state.co.us/ap/oilgaspermitting.html

DISCLAIMER:

These are only example reports and do not cover all possible requirements.

Engine AOS Applicability Report Certification Language

All information for the Applicability Reports must be certified by either 1) for Operating Permits, a Responsible Official as defined in Colorado Regulation No. 3, Part A, Section I.B.38. or 2) for Construction and General Permits, the person legally authorized to act on behalf of the source.

This signed certification document must be packaged with the documents being submitted.

I have reviewed this certification in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements and information contained in this certification are true, accurate and complete. Further, I agree that by signing and submitting these documents I agree that any new requirements identified in the Applicability Report(s) shall be considered to be Applicable Requirements as defined in Colorado Regulation No. 3, section I.B.9., and that such requirements shall be enforceable by the Division and its agents and shall be considered to be revisions to the underlying permit(s) referenced in the Report(s) until such time as the Permit is revised to reflect the new requirements.

Please note that the Colorado Statutes state that any person who knowingly, as defined in § 18-1-501(6), C.R.S., makes any false material statement, representation, or certification in this document is guilty of a misdemeanor and may be punished in accordance with the provisions of § 25-7 122.1, C.R.S.

Printed or Typed Name		
Title		
Signature	Date Signed	

Colorado Regulation No. 7 Sections XVI and XVII.E

DISCLAIMER: This is only an example report and does not cover all possible Reg 7 requirements.

Company: Acme Gas Processing

Source ID: 9991234 Permit #: 930PXX999 Date: October 1, 2008

Determination of compliance and reporting requirements for a

Manufacturer: BestEngineCompany

Model: 777 LowNox

Nameplate HP: 1340

Construction date: July 1, 2007

Note: If the engine is exempt from a requirement due to construction date or was relocated from within Colorado, supporting documentation must be provided.

Determination of Regulation No. 7 requirements:

Regulation No. 7, § XVI

	to this engine. Engine is not located in the ozone nonattainment area or doe facturer's design rate greater than 500 horsepower or did not commencer June 1, 2004.
Does apply to t	his engine and applicable emissions controls have been installed.
Regulation No. 7,	§ XVII.E
	to this engine. Engine does not have a maximum horsepower greater that tion or relocation date precedes the applicability dates.
Does apply to t	his engine. The following emission limits apply to the engine:
NO _X (g/hp-hr):	2.0
CO (g/hp-hr):	4.0
VOC (g/hp-hr):	1.0

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000

Max Engine HP	Construction or Relocation Date	Emission Standards in g/hp-hr				
		NO_X	CO	VOC		
100 <hp<500< td=""><td>January 1, 2008</td><td>2.0</td><td>4.0</td><td>1.0</td></hp<500<>	January 1, 2008	2.0	4.0	1.0		
	January 1, 2011	1.0	2.0	0.7		
500 <u><</u> Hp	July 1, 2007	2.0	4.0	1.0		
	July 1, 2010	1.0	2.0	0.7		

NSPS JJJJ Example Report Format

DISCLAIMER: This is only an example report and does not cover all possible JJJJ requirements.

Note that as of September 1, 2008 that the Division has not yet adopted NSPS JJJJ. Until such time as it does, any engine subject to NSPS will be subject only under Federal law. Once the Division adopts NSPS JJJJ, there will be an additional step added to the determination of the NSPS. Under the provisions of Regulation No. 6, Part B, § I.B (which is referenced in Part A), any engine relocated from outside of the State of Colorado into the State of Colorado is considered to be a new source, subject to the requirements of NSPS JJJJ.

NSPS Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Company: Acme Gas Processing

Source ID: 9991234 Permit #: 93OPXX999 Date: October 1, 2008

Manufacturer: BestEngineCompany

Model: 777 LowNox

Nameplate HP: 1340

Engine Type: 2 Stroke Rich Burn

Manufacture Date: July 1, 2007 Date Engine Ordered: April 1, 2007

Note: If the engine is exempt from a requirement due to construction/manufacture date, supporting documentation must be provided.

Upon adoption of NSPS Subpart JJJJ into Colorado Regulation No. 6, Part A, if the engine is exempt because the engine was relocated within the state of Colorado, supporting documentation must be provided.

must be provided.
NSPS JJJJ does not apply to this engine.
NSPS JJJJ does apply to this engine.
Note: Using the format below, the source must submit to the Division an analysis of all of the

Note: Using the format below, the source must submit to the Division an analysis of all of the NSPS JJJJ applicable requirements that apply to this specific engine. **The analysis below is an example only**, based on a hypothetical engine that is a rich burn engine, greater than 500 HP, with a manufacture date after July 1, 2007.

Operating Permit Number: 99OPLA208 First Issued: July 1, 2000 Renewed: October 1, 2009

<u>Determination of NSPS JJJJ requirements:</u>

60.4230 Applicability

(a)(4)(i) Applies to this engine since it is a rich burn engine, greater than 500 HP, with a manufacture date after July 1, 2007.

60.4233 Emission Standards for Owners and Operators

(e) Owners and operators of stationary SI ICE with a maximum engine power greater than 100 HP must comply with the standards in Table 1.

Non-Emergency SI, Natural Gas, HP≥500, Manufactured after 7/1/2007

NO_x 2.0 g/HP-hr or 160 ppmvd@15% O₂ CO 4.0 g/HP-hr or 540 ppmvd@15% O₂ VOC 1.0 g/HP-hr or 86 ppmvd@15% O₂

Other Requirements for Owners and Operators

60.4234	Emission standards must be met for the lifetime of the e	ngine
00.4234	Emission standards must be met for the methile of the e	mgme.

60.4235 N/A - Sulfur content of gasoline.

N/A (for now) - After July 1, 2009 owners and operators may not install engines with a power rating $\geq 500HP$ that do not meet the emissions standards in 60.4230.

60.4237 N/A - Emergency Engines.

60.4238 - 60.4242 Compliance Requirements for Manufacturers – (Not Applicable)

60.4243 Compliance Requirements for Owners and Operators

- (b)(2)(ii) To maintain compliance with the emission limits in 60.4233, owners of SI ICE \geq 500HP must:
 - Keep a maintenance plan;
 - Keep records of conducted maintenance;
 - Maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions;
 - Conduct an initial performance test; and
 - Conduct subsequent performance tests every 8,760 hours or every three years, which ever comes first, in order to demonstrate compliance with the emission limits.
- (g) Air to fuel ratio controllers (AFRCs) must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

60.4244 Testing Requirements for Owners and Operators

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- (a) Each performance test must be conducted within 10% of the highest achievable load and must comply with the testing requirements listed in 60.8 and Table 2 of NSPS JJJJ.
- (b) Performance tests may not be conducted during periods of startup, shutdown, or malfunction, as specified in 60.8(c). If the engine is non-operational when a performance test is due, the engine does not need to be started up just to test it, but will need to be tested immediately upon startup.
- (c) Three separate test runs must be conducted for each performance test as specified by 60.8(f). Each run must be within 10% of max load and be at least 1 hour in duration.
- (d) To determine compliance with the NO_x, CO, and VOC mass per unit output emission limitations, the measured concentration must be converted using the equations outlined in this section of NSPS JJJJ.

60.4245 Notification, Reports, and Records for Owners and Operators

- (a) Owners of all stationary SI ICE must keep records of the following:
 - (1) All notifications submitted to comply with this subpart;
 - (2) Maintenance conducted on the engine;
 - (3) N/A Manufacturer information for certified engines, and
 - (4) Documentation that shows non-certified engines are in compliance with the emission standards.
- (b) N/A For emergency engines only.
- Owners of non-certified engines \geq 500HP must submit an initial notification as required in 60.7(a)(1) which includes the following information:
 - (1) Name and address of the owner or operator;
 - (2) The address of the affected source;
 - (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
 - (4) Emission control equipment; and
 - (5) Fuel used.

CONCLUSION OF FINDINGS (EXAMPLE ONLY)

In general, Acme's 1,235HP, Waukesha 7042 GSI engine is subject to the emissions limitations summarized in Table 1 of NSPS JJJJ. ACME will meet these emission limitations using an AFRC and a non-selective catalytic converter (NSCR). These emission rates will be met throughout the life of the engine. A maintenance plan will be kept and all maintenance activities

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will be recorded. Compliance with the emission limits will be confirmed by the initial performance tests, which shall be conducted following the procedures outlined in 60.4244. Copies of performance test results will be submitted within 60 days of the completion of each test. Since this is an uncertified engine, an initial notification will be submitted including all of the requested information in 40.4245 within 30 days of startup. ACME will keep records of all compliance related materials.

MACT ZZZZ Area Source Example Report Format

DISCLAIMER: This is only an example report and does not cover all possible ZZZZ requirements.

MACT Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Company: Acme Gas Processing

Source ID: 9991234 Permit #: 93OPXX999 Date: October 1, 2008

Manufacturer: BestEngineCompany

Model: 777 LowNox

Nameplate HP: 1340

Engine Type: 2 Stroke Rich Burn

Manufacture Date: July 1, 2007 Date Engine Ordered: April 1, 2007

Note: If the engine is exempt from a requirement due to construction/reconstruction date, supporting documentation must be provided.

] MACT	ZZZZ	does r	ot appl	y to	this	engine	١.
Г	MACT	ZZZZ	does a	pply to	this	engi	ine.	

Note: Using the format below, the source must submit to the Division an analysis of all of the area source MACT ZZZZ applicable requirements that apply to this specific engine. **The analysis below is an example only**, based on a hypothetical new engine located at an area source of HAP emissions.

Determination of MACT ZZZZ requirements:

63.6585 Applicability

This subpart is applicable to Acme's engine since they are going to be operating a new stationary reciprocating internal combustion engine (RICE) at an area source of HAP emissions.

63.6590 What Parts of My Plant Does This Subpart Cover?

(c) A new or reconstructed stationary RICE located at an area source of HAP emissions that is subject to 40 CFR Part 60, must meet the requirements of this part by meeting the requirements of 40 CFR Part 60 subpart JJJJ.

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CONCLUSION OF FINDINGS (EXAMPLE ONLY)

Since this engine is subject to NSPS JJJJ, no additional requirements apply under MACT ZZZZ.

MACT ZZZZ Major Source Example Report Format

DISCLAIMER: This is only an example report and does not cover all possible ZZZZ requirements.

MACT Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Company: Acme Gas Processing

Source ID: 9991234 Permit #: 93OPXX999 Date: October 1, 2008

Manufacturer: BestEngineCompany

Model: 777 LowNox

Nameplate HP: 1340

Engine Type: 2 Stroke Rich Burn

Manufacture Date: July 1, 2007 Date Engine Ordered: April 1, 2007

Note: If the engine is exempt from a requirement due to construction/reconstruction date, supporting documentation must be provided.

	_ MACT	ZZZZ	does	not ap	pply to	this	engii	ne
Г	MACT	ZZZZ	does	apply	to this	eng	ine.	

Note: Using the format below, the source must submit to the Division an analysis of all of the major source MACT ZZZZ applicable requirements that apply to this specific engine. **The analysis below is an example only**, based on a hypothetical new engine located at a major source of HAP emissions.

Determination of MACT ZZZZ requirements:

63.6585 Applicability

This subpart is applicable to Acme's engine since they are going to be operating a new stationary reciprocating internal combustion engine (RICE) at a major source of HAP emissions.

63.6590 What Parts of My Plant Does This Subpart Cover?

This subpart covers Acme's new stationary reciprocating internal combustion engine.

63.6595 When do I have to comply with this Subpart?

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(a)(5) The engine must comply with the applicable emission limitations and operating limitations upon startup.

63.6600 Emission and operating limitations for RICE site rated at more than 500 hp

(a) The engine is subject to the emission limits in table 1a and the operating limits in table 1b. ACME will meet the emission limitations by reducing formaldehyde emissions by 76 percent and will maintain the catalyst such that the pressure drop does not change by more than 2 inches of H_2O at 100 % load plus or minus 10 percent from the pressure drop measured during the initial performance test and will maintain the temperature of the engine exhaust so that the catalyst inlet temperature is greater than or equal to 750 °F and less than or equal to 1250 °F.

The engine will be equipped with non-selective catalytic reduction and an air fuel controller to meet the emission limitations.

63.6601 & 63.6611 Requirements for 4SLB engines between 250 and 200 hp

These requirements do not apply.

63.6605 General Requirements

- (a) The engine will comply with the emission and operating limitations at all times, except during periods of startup, shutdown and malfunction (SSM)
- (b) The engine, including air pollution control and monitoring equipment shall be operating in a manner consistent with good air pollution control practices for minimizing emissions at all times, including during SSM.

63.6610 Initial performance test

- (a) the performance tests specified in Table 4 (select sampling port and measure O₂, moisture and formaldehyde at inlet and outlet of the control device) shall be conducted within 180 days of startup.
- (b) & (c) not applicable construction did not commence between 12/19/02 and 6/15/04.
- (d) previous performance tests have not been conducted on this unit within two years, therefore, this provision does not apply.

63.6615 Subsequent performance tests

Subsequent tests will be conducted as specified in Table 3. No additional testing is required for 4SRB engines meeting the formaldehyde percent reduction requirements.

63.6620 Performance test procedures

- (b) tests must be conducted at 100 % load plus or minus 10%
- (c) tests may not be conducted during periods of SSM.
- (d) must conduct three 1-hr test runs

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- (e) equation (e)(1) shall be used to determine compliance with the percent reduction requirement.
- (f), (g) & (h) Not applicable
- (i) engine load during test shall be determined as specified in this paragraph.

63.6625 Monitoring, installation, operation and maintenance requirements

- (a), (c) & (d) Not applicable
- (b) a continuous parameter monitoring system (CPMS) shall be installed to measure the catalyst inlet temperature. The CPMS will meet the requirements in § 63.8

63.6630 Demonstrating initial compliance

- (a) initial compliance shall be determined in accordance with table 5 (initial performance test must indicate formaldehyde reduction of 76 percent or more, a CPMS must be installed to measure inlet temperature of the catalyst and the pressure drop and catalyst inlet temperature must be recorded during the initial performance test).
- (b) pressure differential will be established during the initial performance test.
- (c) Notification of compliance status will be submitted and will contain the results of the initial compliance demonstration.

63.6635 Monitoring to demonstrate continuous compliance

- (b) except for monitor malfunctions, associated repairs, and required QA/QC activities monitoring must be continuous at all time the engine is operating.
- data recorded during monitoring malfunctions, associated repairs and required QA/QC activities must not be used in data averages and calculations to report operating levels, however, all the valid data collected during other periods shall be used.

63.6640 Demonstrating continuous compliance

- (a) continuous compliance will be demonstrated as specified in table 6 (collect catalyst inlet temperature data, reduce that data to 4-hr rolling average and maintain the 4-hr rolling averages to within the operating limitation and measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop meets the operating limitation.
- (b) deviations from the emission and operating limitations must be reported per § 63.6550.

If catalyst is changed the operating parameters established during the initial performance test must be re-established.

When operating parameters re-established a performance test must also be conducted.

63.6645 Notifications

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- (a) Submit notifications in §§ 63.7(b) & (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) thru (e) & (g) & (h) that apply by dates specified.
- (b) Not applicable. Acme unit started after effective dated for Subpart ZZZZ.
- (c) Submit initial notification within 120 days after becoming subject to Subpart ZZZZ.
- (d) thru (f) Not applicable. Acme engine greater than 500 hp and subject to requirements in Subpart ZZZZ.
- (g) & (h) Submit notification of intent to conduct performance test and notification of compliance status.

63.6650 Reports

- (a) Submit reports required by table 7 (compliance report and SSM reports (if actions inconsistent with SSM plan)
- (b) Not applicable, an alternate schedule for report submittal has been approved. Reports will be submitted with title v reports
- (c) Compliance reports to contain the following information: company name and address, statement by responsible official certifying accuracy, date of report and beginning and end of reporting period, if SSM the information in 63.10(d)(5)(i), if no deviations a statement saying that, if no periods when CPMS out of control a statement saying that.
- (d) Not applicable, using CPMS
- (e) For each deviation the information in (e)(1) thru (e)(12) shall be provided.
- (f) Applicable. Compliance reports are submitted with title v reports. Compliance reports under Subpart ZZZZ include all necessary info for title v deviation report with respect to Subpart ZZZZ requirements.
- (g) Not applicable. Acme engine not firing landfill or digester gas.

63.6655 Recordkeeping

- (a) Retain records as follows: copy of each notification and report (including all documentation supporting any initial notification or notification of compliance status), records in 63.6(e)(iii) thru (v) related to SSM, and records of performance tests and evaluations.
- (b) CPMS records including records in 63.10(b)(2)(vi) thru (xi), previous versions of the performance evaluation plan required by 63.8(d)(3) and requests for alternatives to the relative accuracy test for CPMS as required by 63.8(f)(6)(i).
- (c) Not applicable. Acme engine not firing landfill or digester gas.
- (d) Will keep records required in Table 6 (monthly pressure drop readings, 4-hr averages of catalyst inlet temperature) to show continuous compliance with emission and operating limits.

63.6660 Form and length of records

(a) records must be in a form suitable and readily available for expeditions review

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- (b) records must be retained for five years
- (c) records must be retained on-site for first 2 years, may be retained off-site for the remaining 3 years

63.6665 General Provisions

This engine must comply with the general provisions as indicated in Table 8.

CONCLUSION OF FINDINGS (EXAMPLE ONLY)

Since this engine is subject to the requirements of MACT Subpart ZZZZ. The engine will be installed with a non-selective catalyst to meet the formaldehyde reduction requirement of 76% or more. An initial performance test will be conducted within 180 days of startup to demonstrate compliance with the formaldehyde percent reduction requirement. During the initial performance test, the pressure drop across the catalyst will be measured. A CPMS will be installed to measure the catalyst inlet temperature. Continuous compliance will be demonstrated by keeping the 4-hr rolling averages of catalyst inlet temperature within the operating limitations and recording the pressure drop across the catalyst monthly and demonstrating that the pressure drop is within the operating limitation.

Records, notifications and reports will be submitted as required. To that end required reports and notifications include initial notification, notice of intent to conduct performance test, notification of compliance status, SSM reports (if required) and semi-annual compliance reports.

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